

FIG. 2 is a block diagram of a system 22 for providing services to a user. The system 22 includes a user interface 24, a security module 26, and a service module 28. The user interface 24 is connected to the security module 26, which is connected to the service module 28. The security module 26 includes three security profiles: Security Profile 1, Security Profile 2, and Security Profile 3. Each security profile is associated with a specific service: Security Profile 1 is associated with Service A, Security Profile 2 is associated with Service B, and Security Profile 3 is associated with Service C. The service module 28 is connected to a network 40, which is connected to a server 42. The server 42 is connected to a database 44.

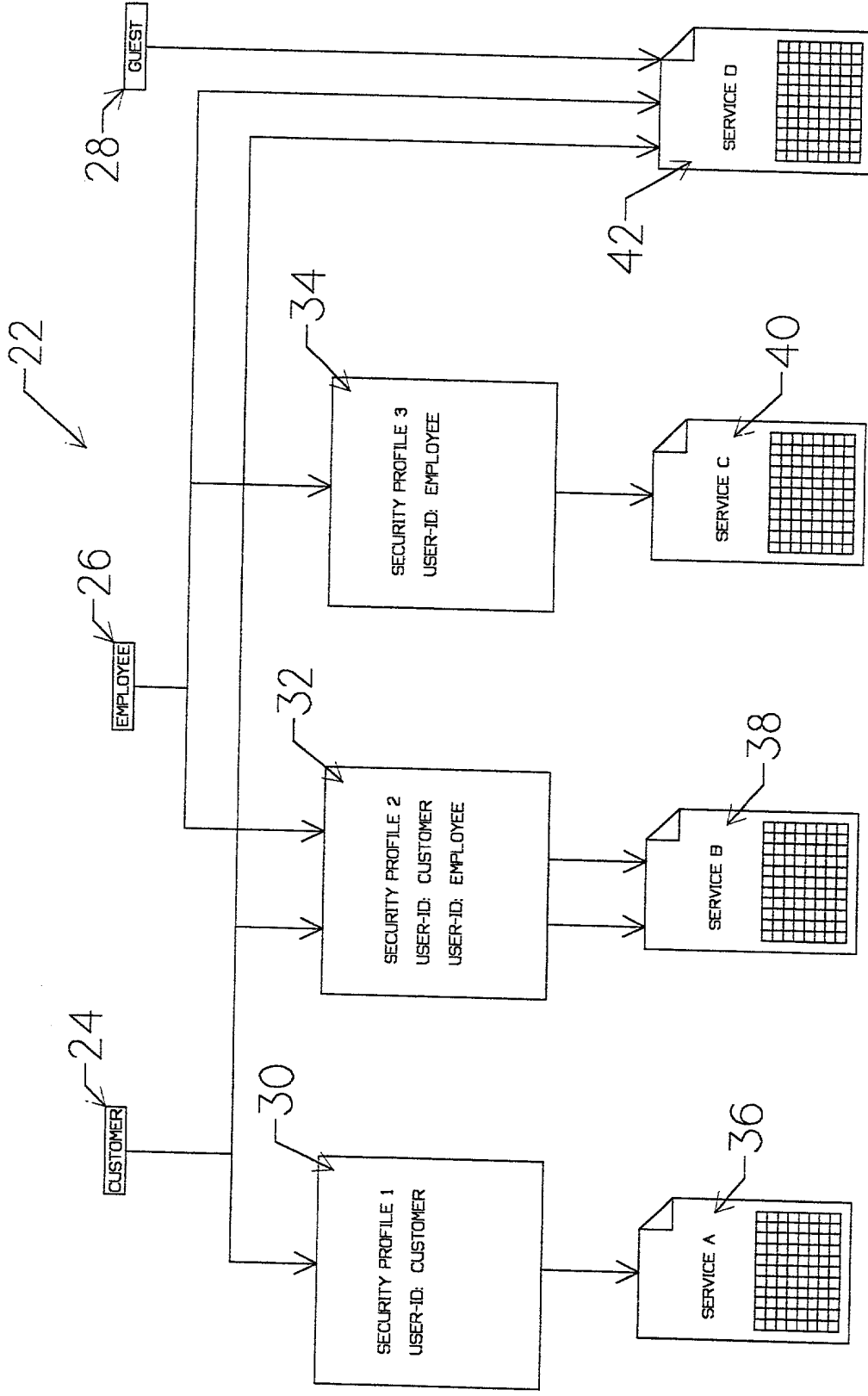


FIG. 2

FIG. 3 is a block diagram of a network system 44. The network system 44 includes a client 46, a web server 50, an enterprise server 54, and a departmental server 58. The client 46 is connected to the web server 50 via a network 48. The web server 50 is connected to the enterprise server 54 via a network 52. The enterprise server 54 is connected to a database 56. The departmental server 58 is connected to a database 60.

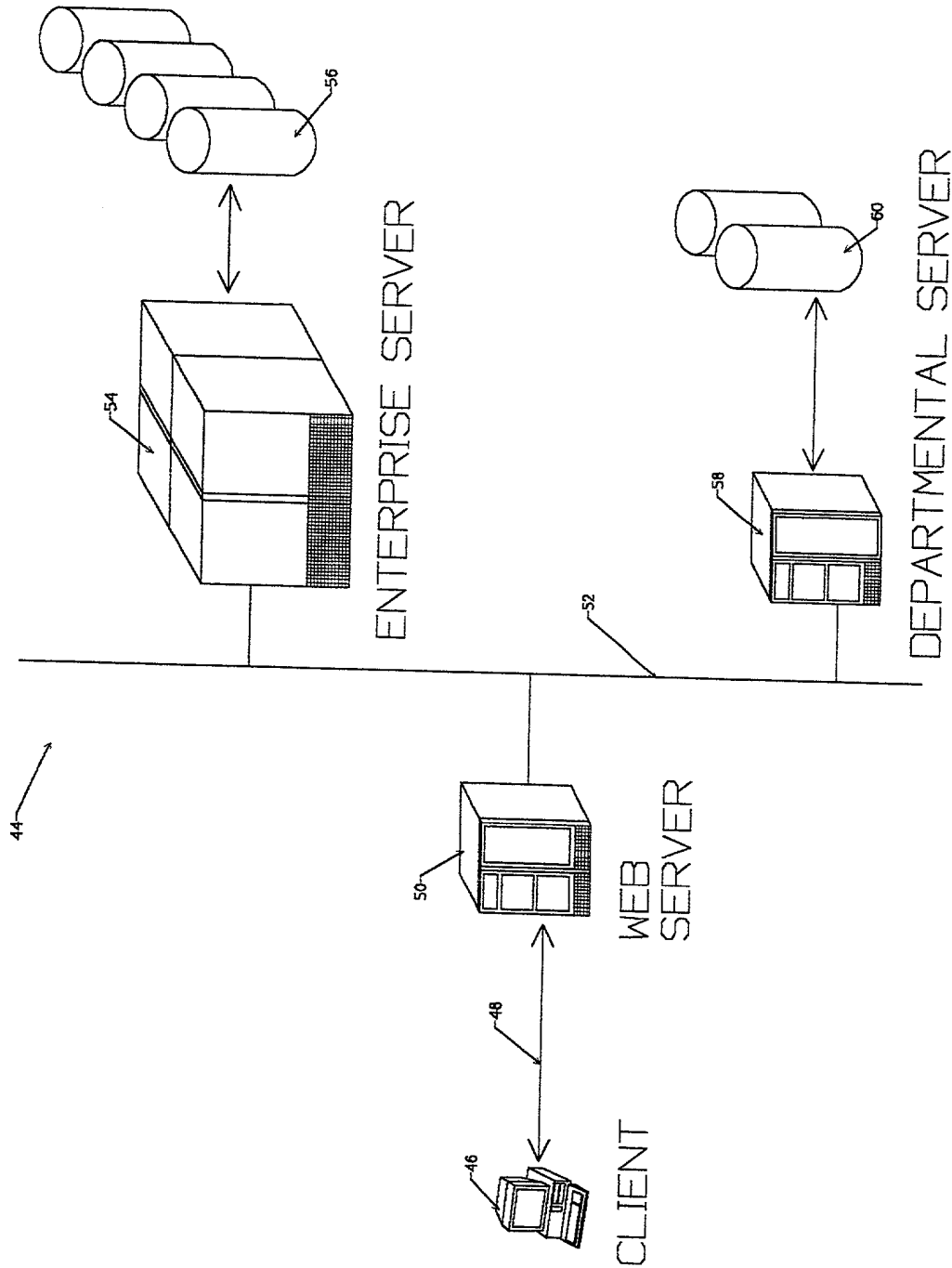
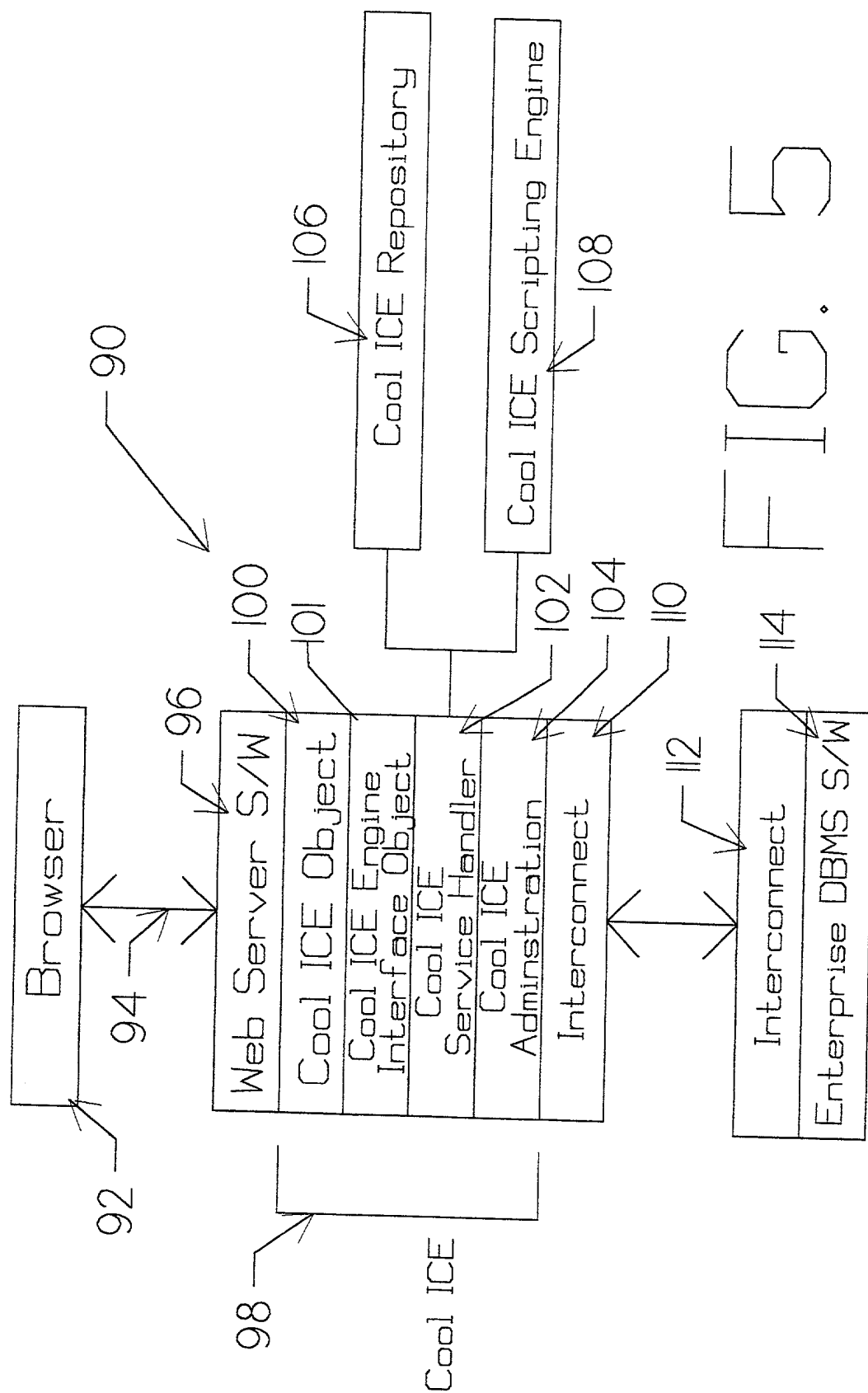


FIG. 3



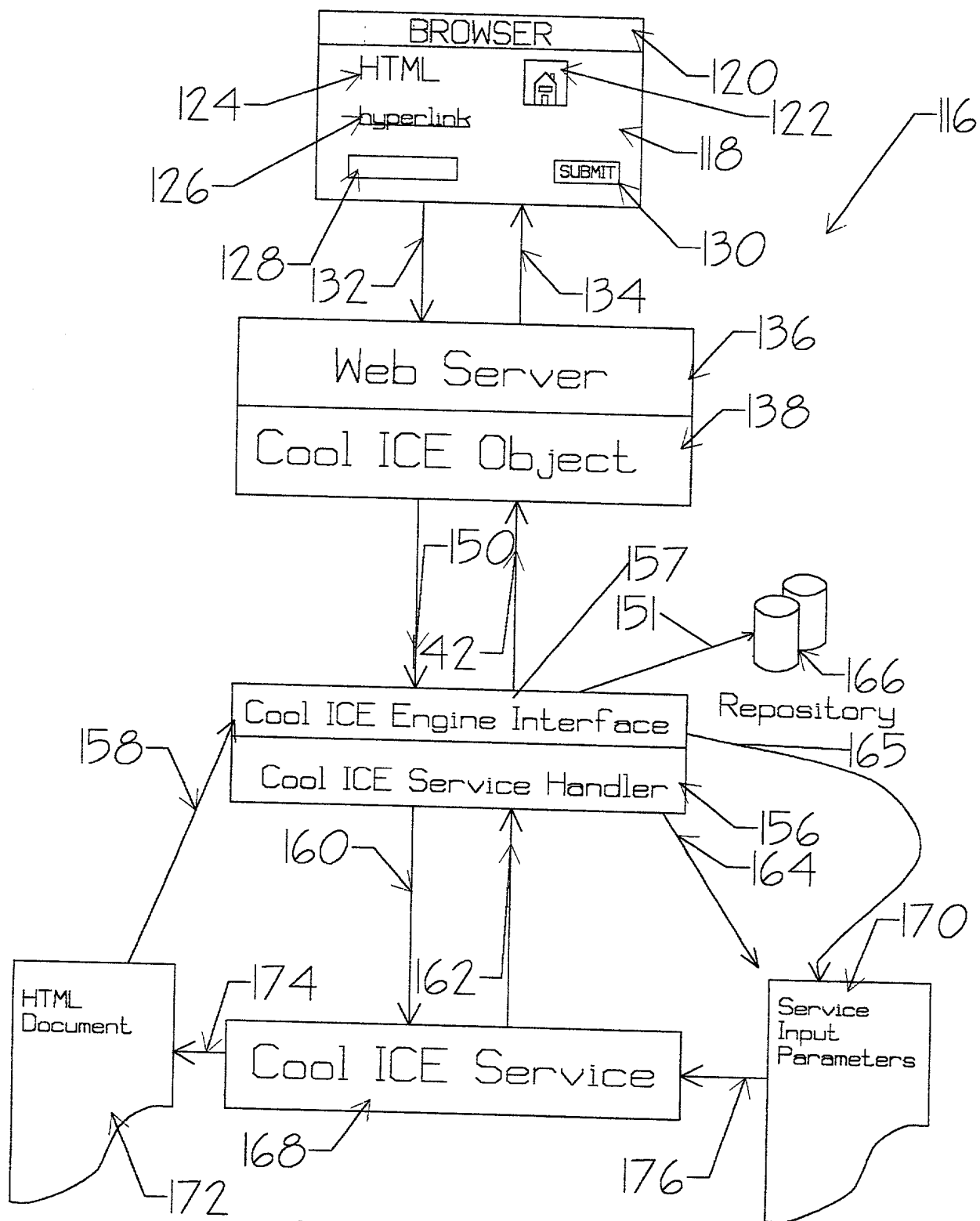


FIG. 6

FIG. 9 is a block diagram of a system architecture. The system includes a WORK STATION (242) with a BROWSER (244). The WORK STATION is connected to an INTERNET (250) via a network interface (248). The INTERNET is connected to a WEB SERVER (254) via a network interface (252). The WEB SERVER is connected to a COOL ICE ENGINE (256) via a network interface (258). The COOL ICE ENGINE is connected to a COOL ICE OBJECT (268) via a network interface (270). The COOL ICE OBJECT is connected to a COOL ICE ENGINE INTERFACE (259) via a network interface (266). The COOL ICE ENGINE INTERFACE is connected to a SERVICE HANDLER (258) via a network interface (272). The SERVICE HANDLER is connected to a STATE MANAGER (274) via a network interface (276). The STATE MANAGER is connected to a REPOSITORY SERVICE (284) via a network interface (280). The REPOSITORY SERVICE is connected to a DATA BASE (264) via a network interface (288). The DATA BASE is connected to the REPOSITORY SERVICE via a network interface (286). The REPOSITORY SERVICE is connected to the STATE MANAGER via a network interface (282). The STATE MANAGER is connected to the SERVICE HANDLER via a network interface (278). The SERVICE HANDLER is connected to the COOL ICE ENGINE INTERFACE via a network interface (274). The COOL ICE ENGINE INTERFACE is connected to the COOL ICE OBJECT via a network interface (270). The COOL ICE OBJECT is connected to the COOL ICE ENGINE via a network interface (266). The COOL ICE ENGINE is connected to the WEB SERVER via a network interface (258). The WEB SERVER is connected to the INTERNET via a network interface (252). The INTERNET is connected to the WORK STATION via a network interface (248).

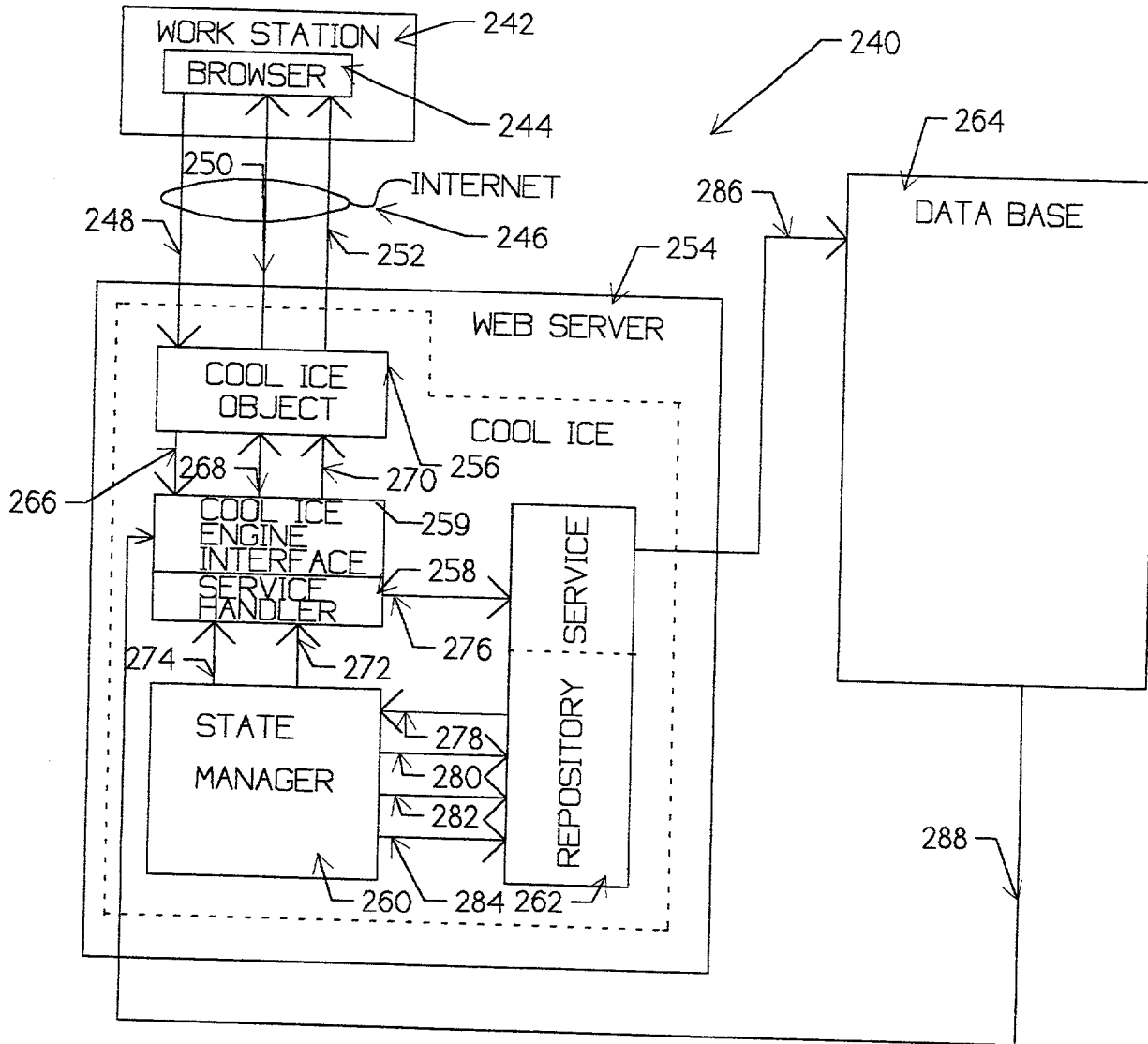


FIG. 9

FIG. 10 is a block diagram of a system architecture. The diagram shows a WORKSTATION (440) at the top, containing a WEB BROWSER (442). Below the workstation is a large box representing a server system (454), which contains a COOL ICE OBJECT (462), a COOL ICE ENGINE INTERFACE (471), and a SERVICE HANDLER (472). To the right of the server system is a REMOTE DATABASE (456). A REPOSITORY (482) is located within the server system, containing a COOL ICE SERVICE (480). Arrows indicate data flow: from the WORKSTATION to the COOL ICE OBJECT (446, 448, 454, 452); from the COOL ICE OBJECT to the COOL ICE ENGINE INTERFACE (464, 468, 470); from the COOL ICE ENGINE INTERFACE to the SERVICE HANDLER (476, 478); from the SERVICE HANDLER to the REMOTE DATABASE (460); and from the REMOTE DATABASE to the COOL ICE ENGINE INTERFACE (458). The COOL ICE SERVICE (480) is connected to the SERVICE HANDLER (472) via arrows (476, 478).

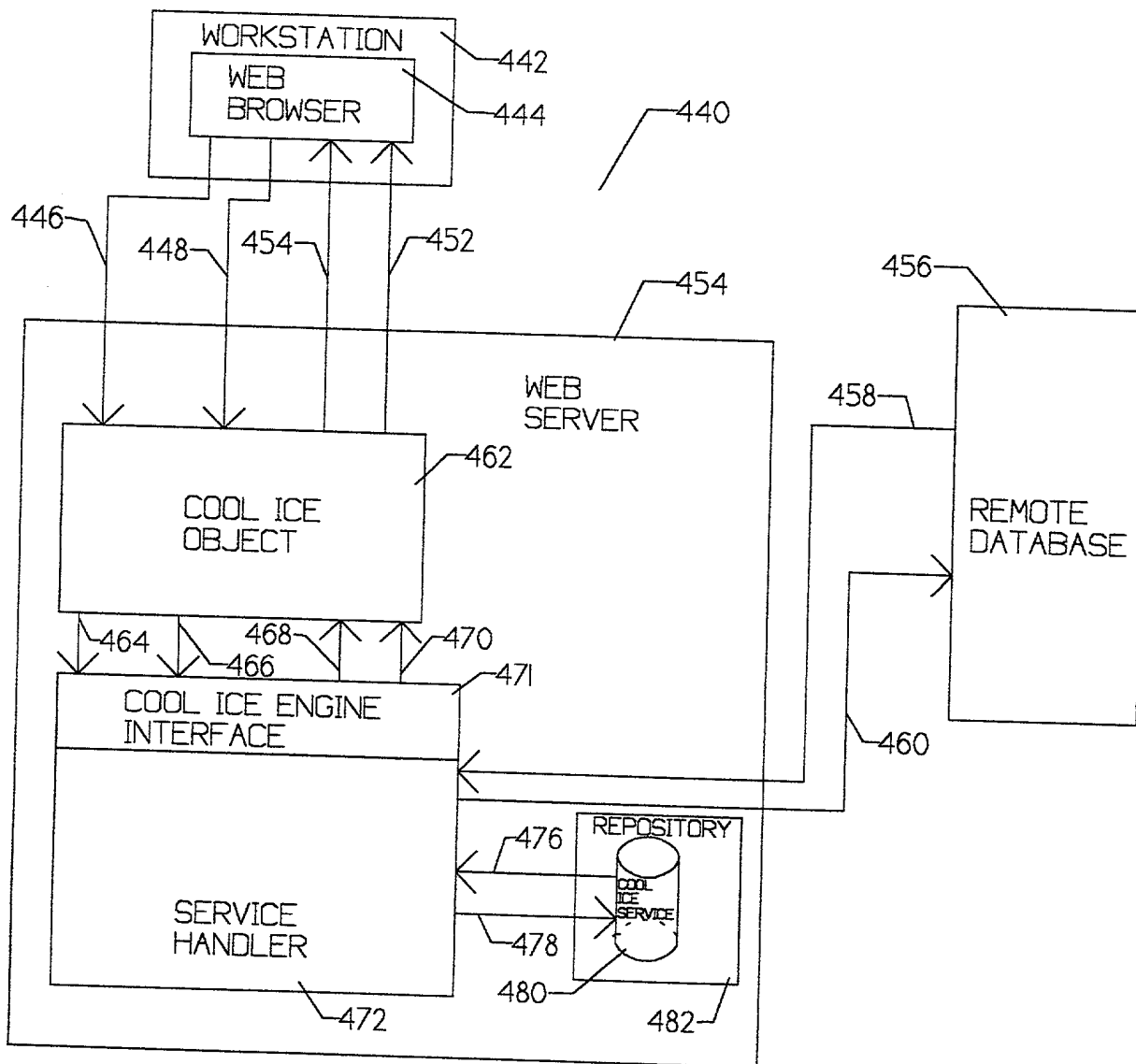


FIG. 10

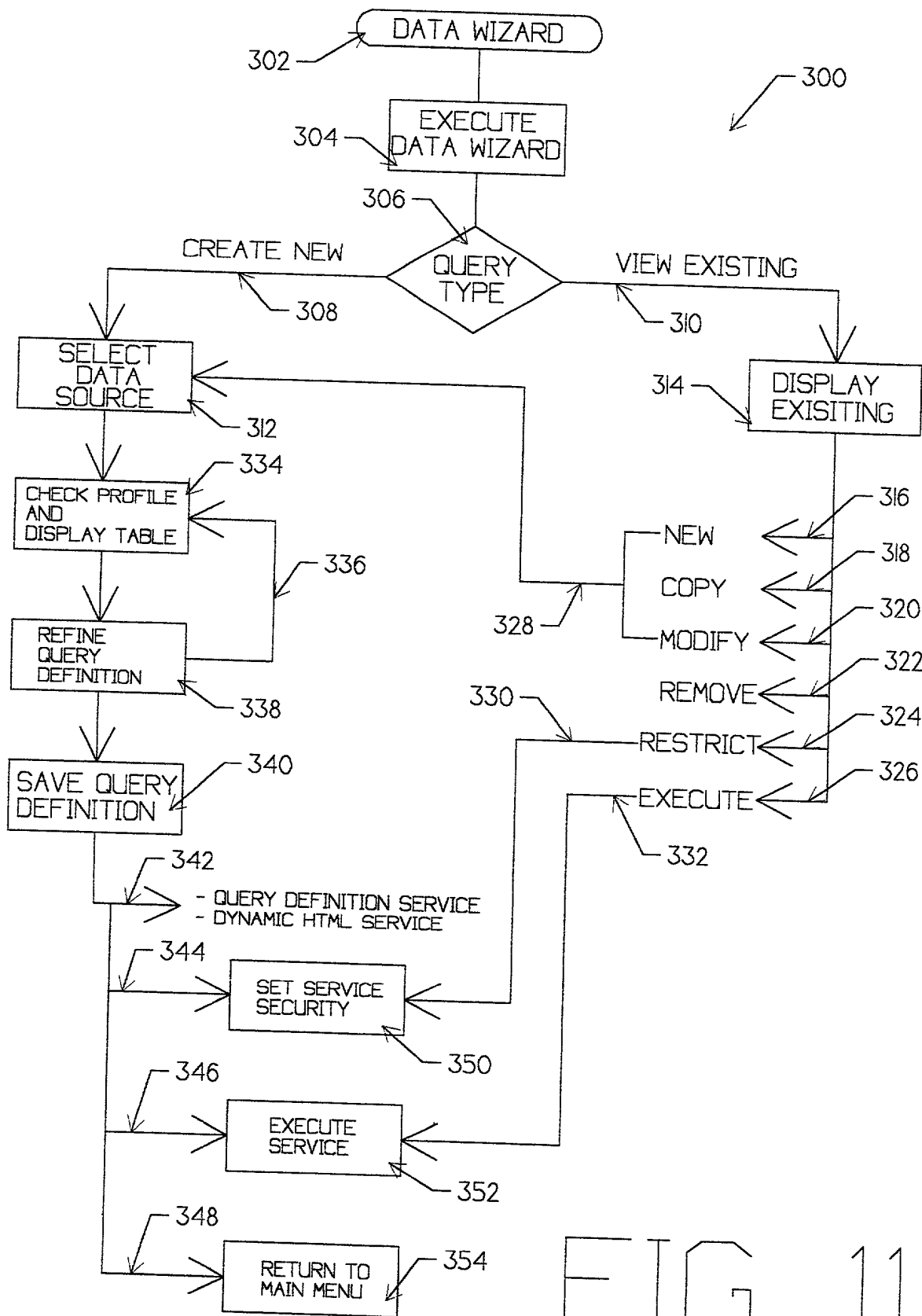


FIG. 11

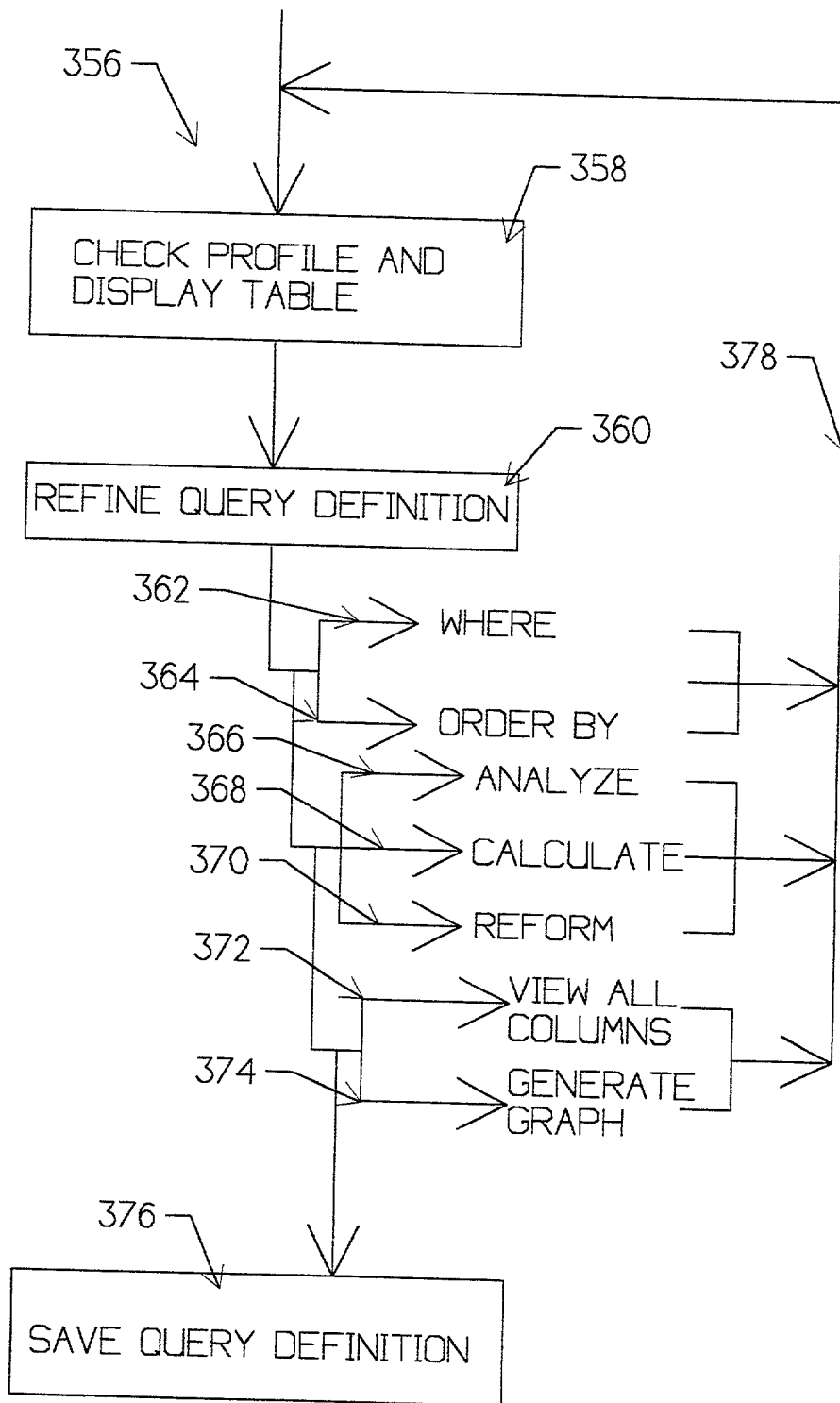


FIG. 12

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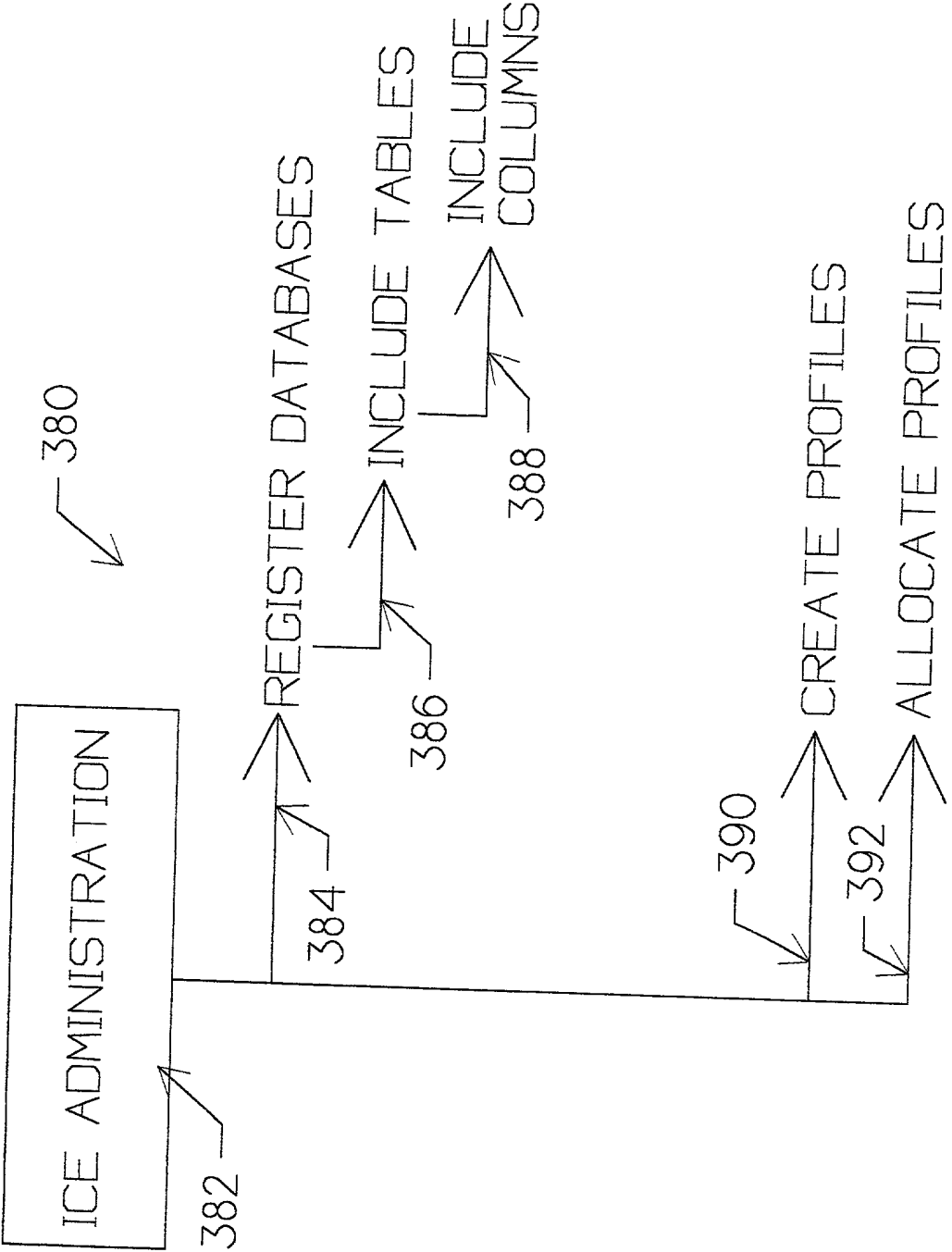


FIG. 13

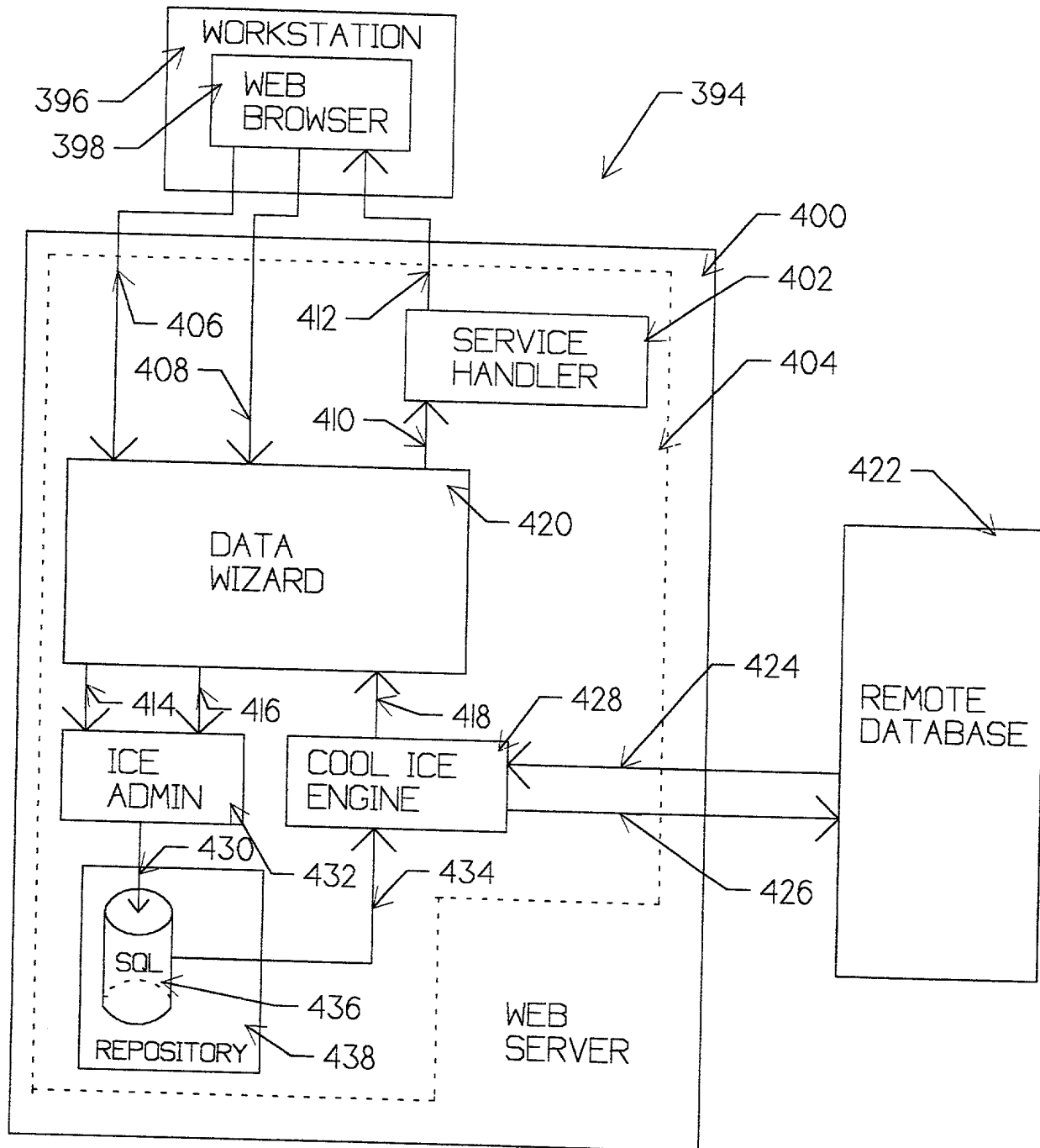


FIG. 14

11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

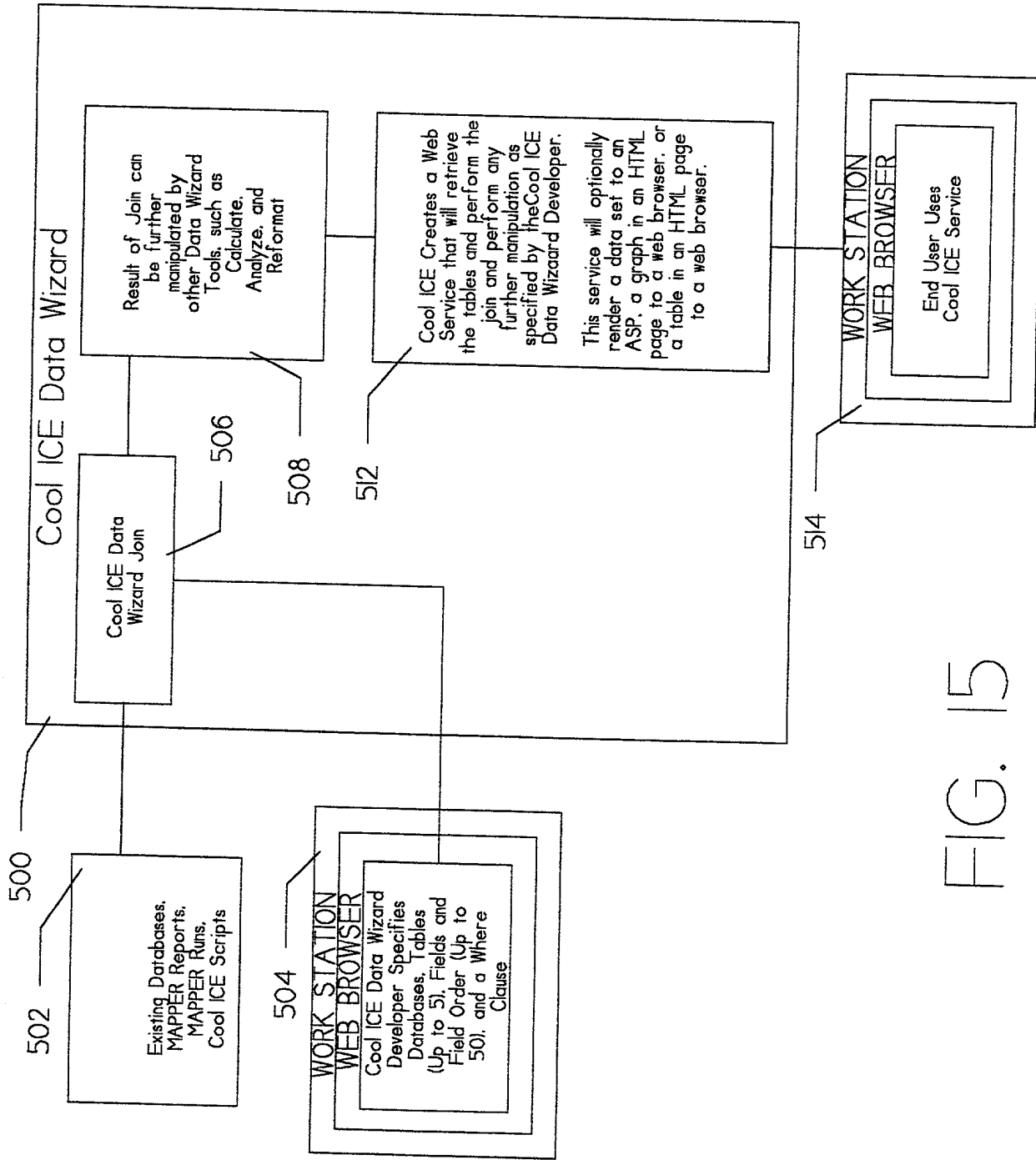
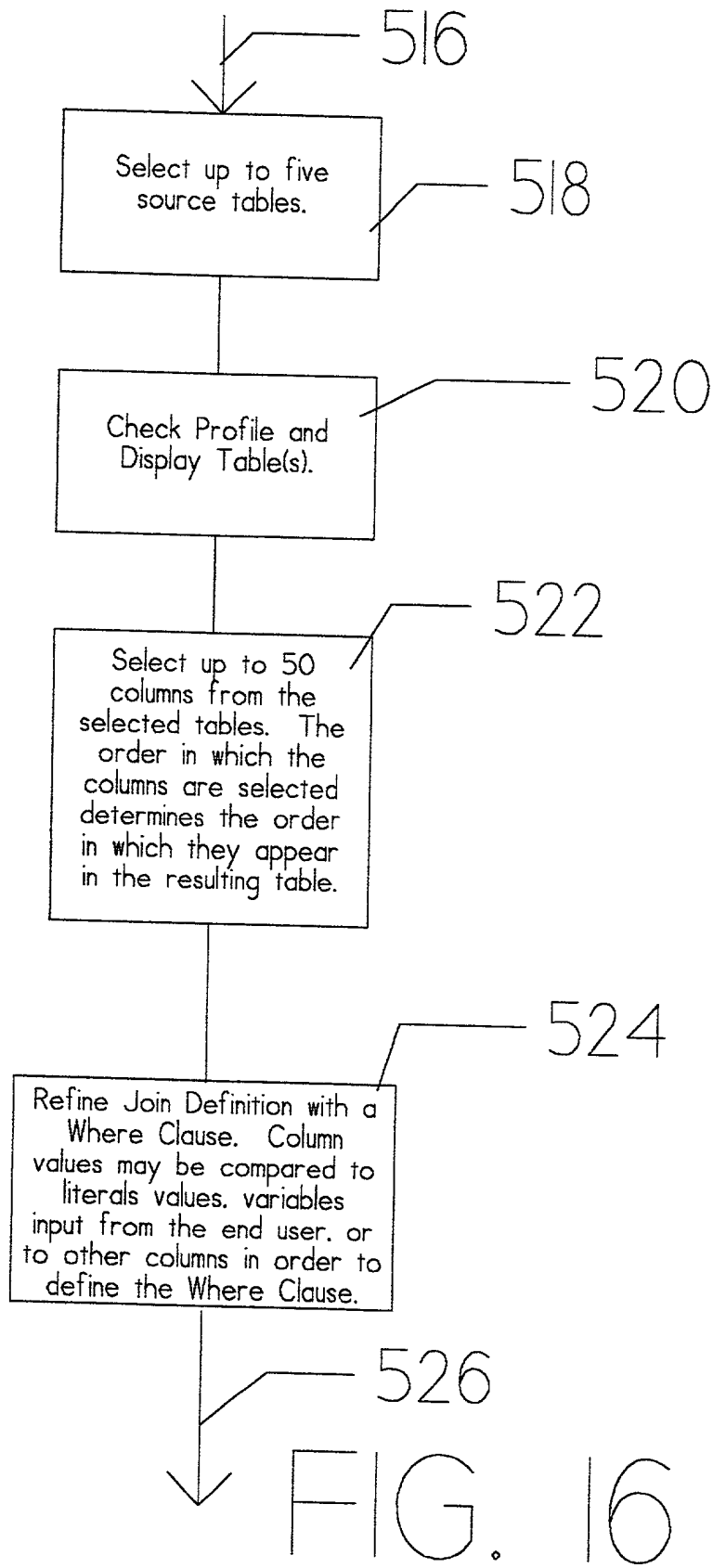


FIG. 15



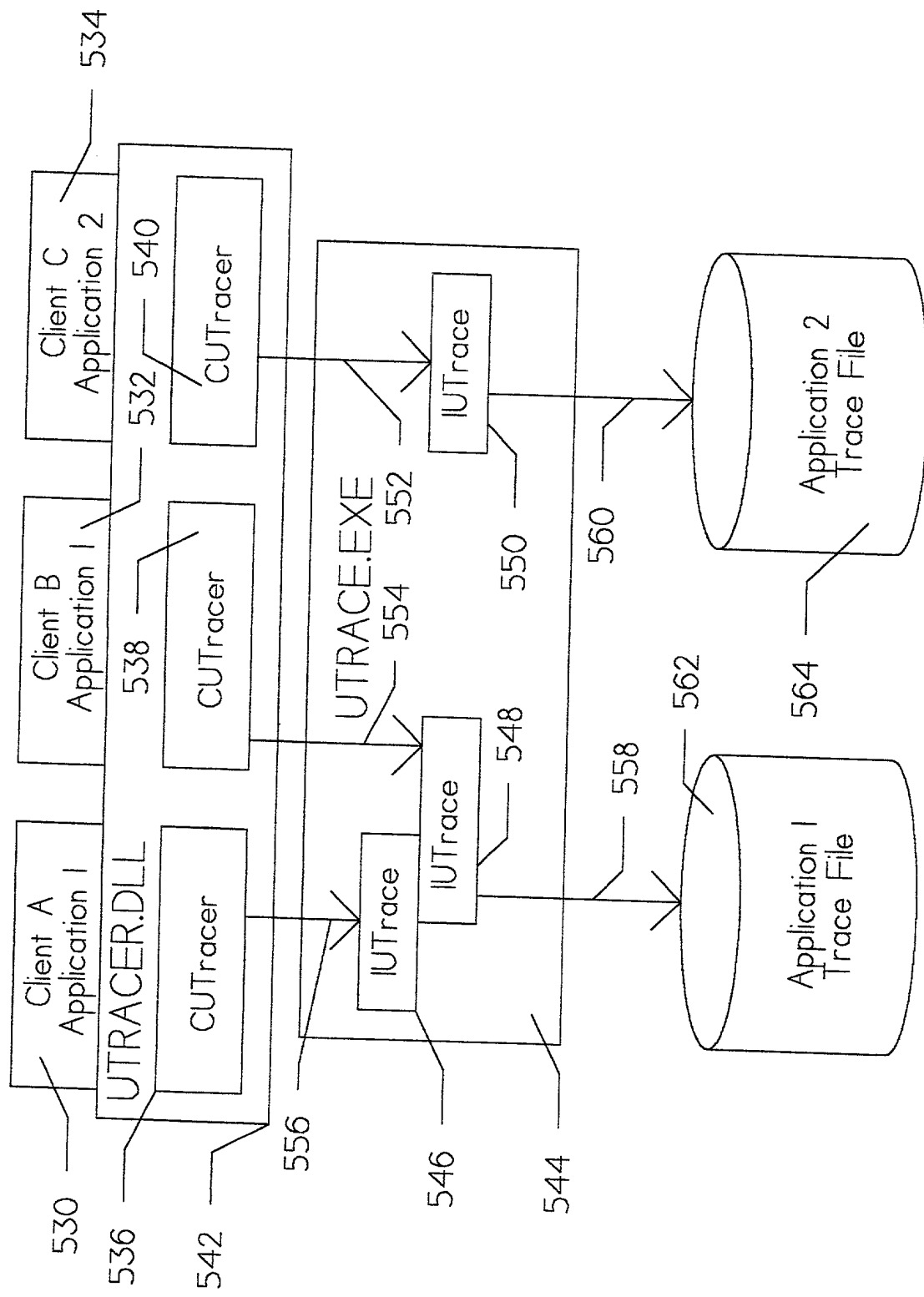


FIG. 17

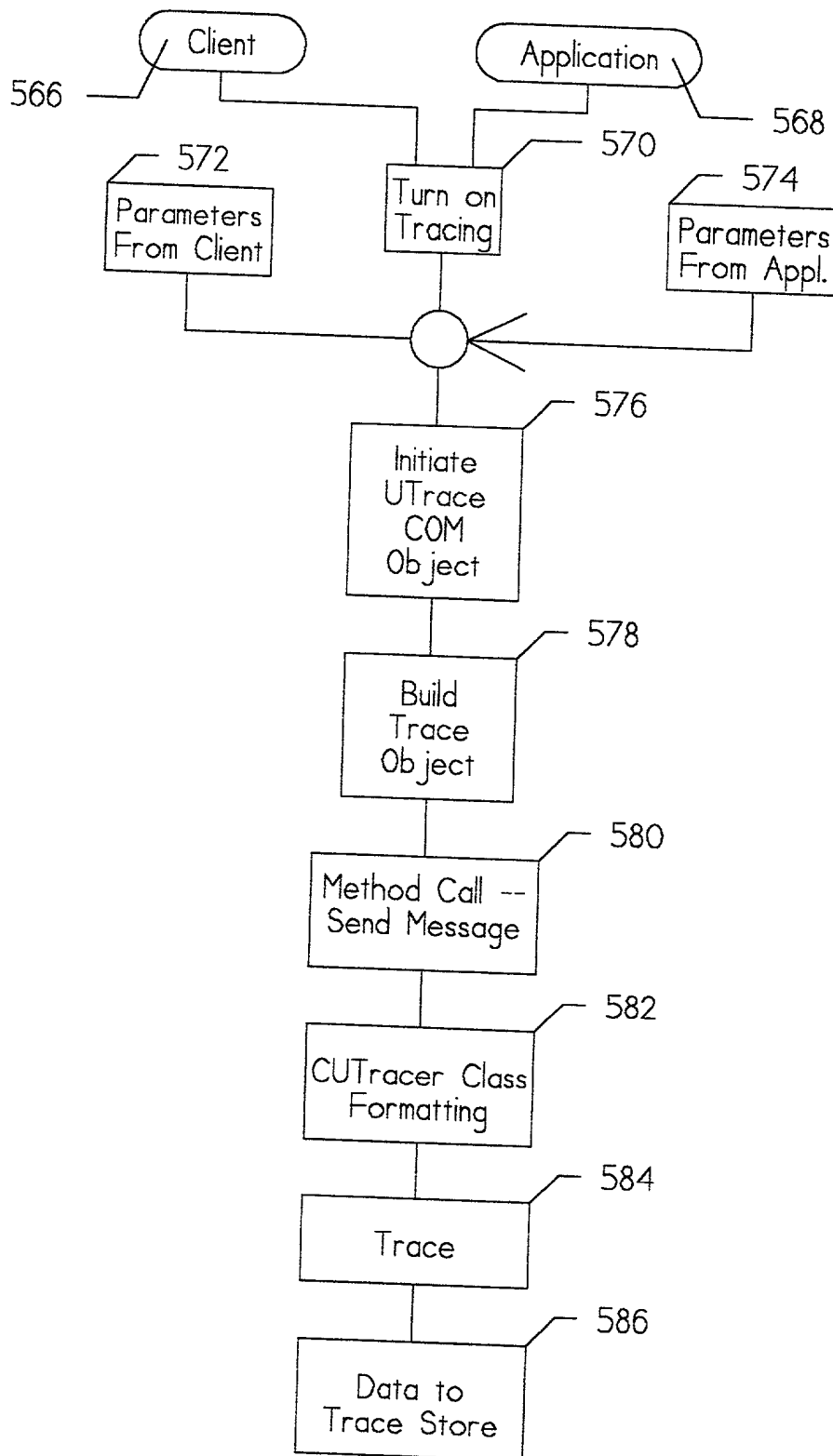


FIG. 19

```
#define CI_TRACE_VERSION      0x1
#define CI_TRACE_ERROR        0x2
#define CI_TRACE_INTERFACE    0x4
#define CI_TRACE_FLOW         0x8
#define CI_TRACE_DETAIL       0x10
```

FIG. 20A

```
if (m_trace.Active(CI_TRACE_DETAIL))
m_trace<<"MY Detailed Trace information"<<Localvariable<<traceit
```

FIG. 20B

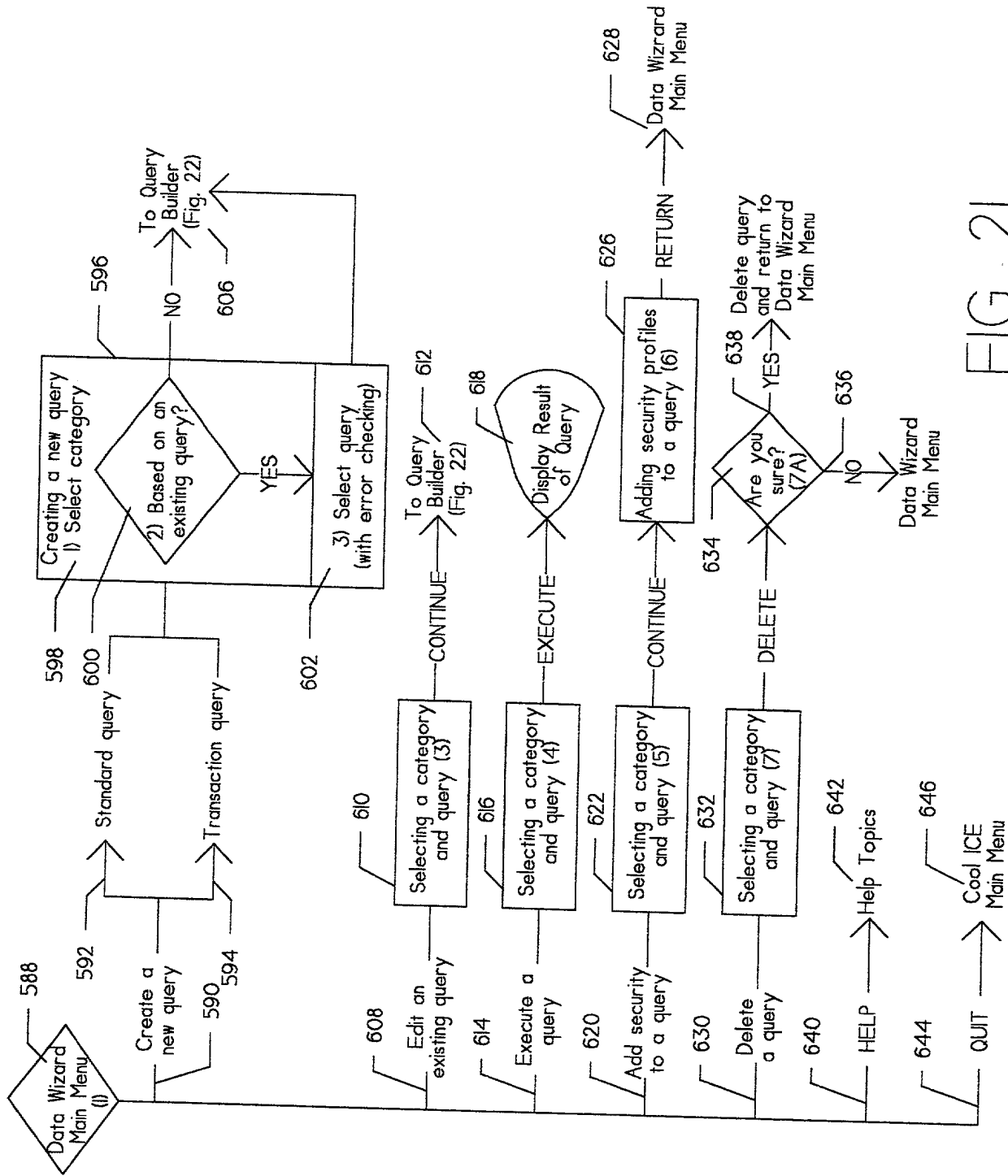


FIG. 21

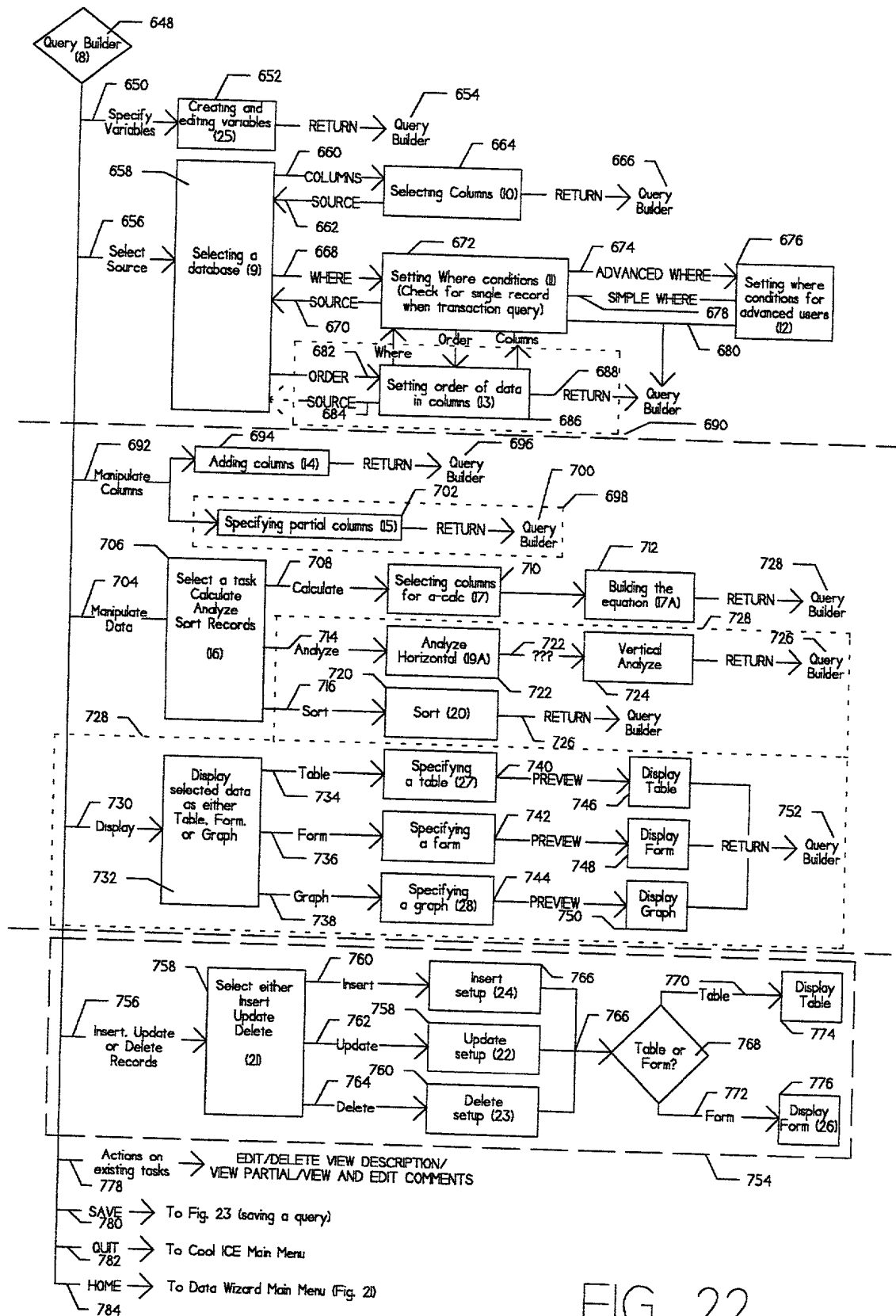


FIG. 22

11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.

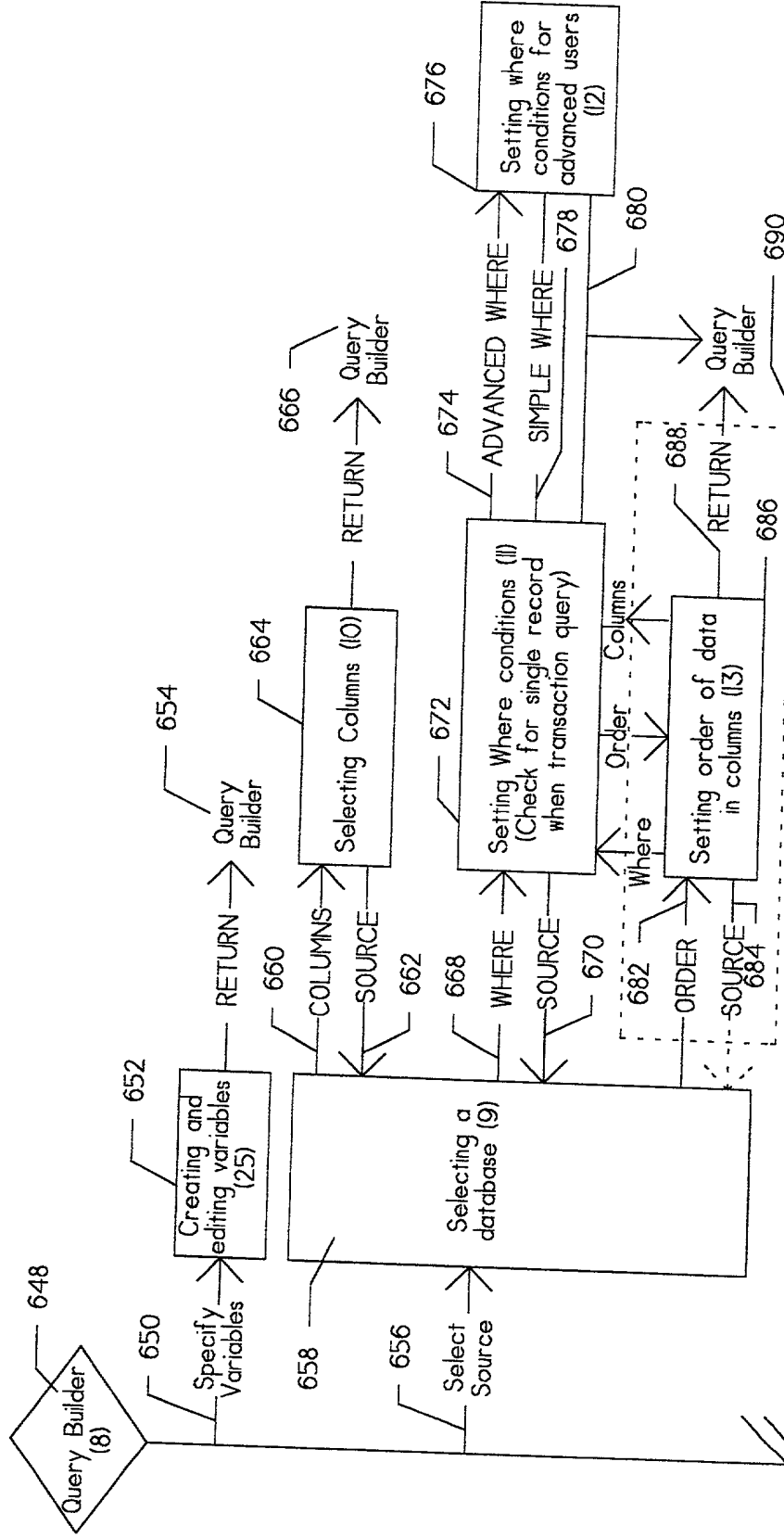


FIG. 22A

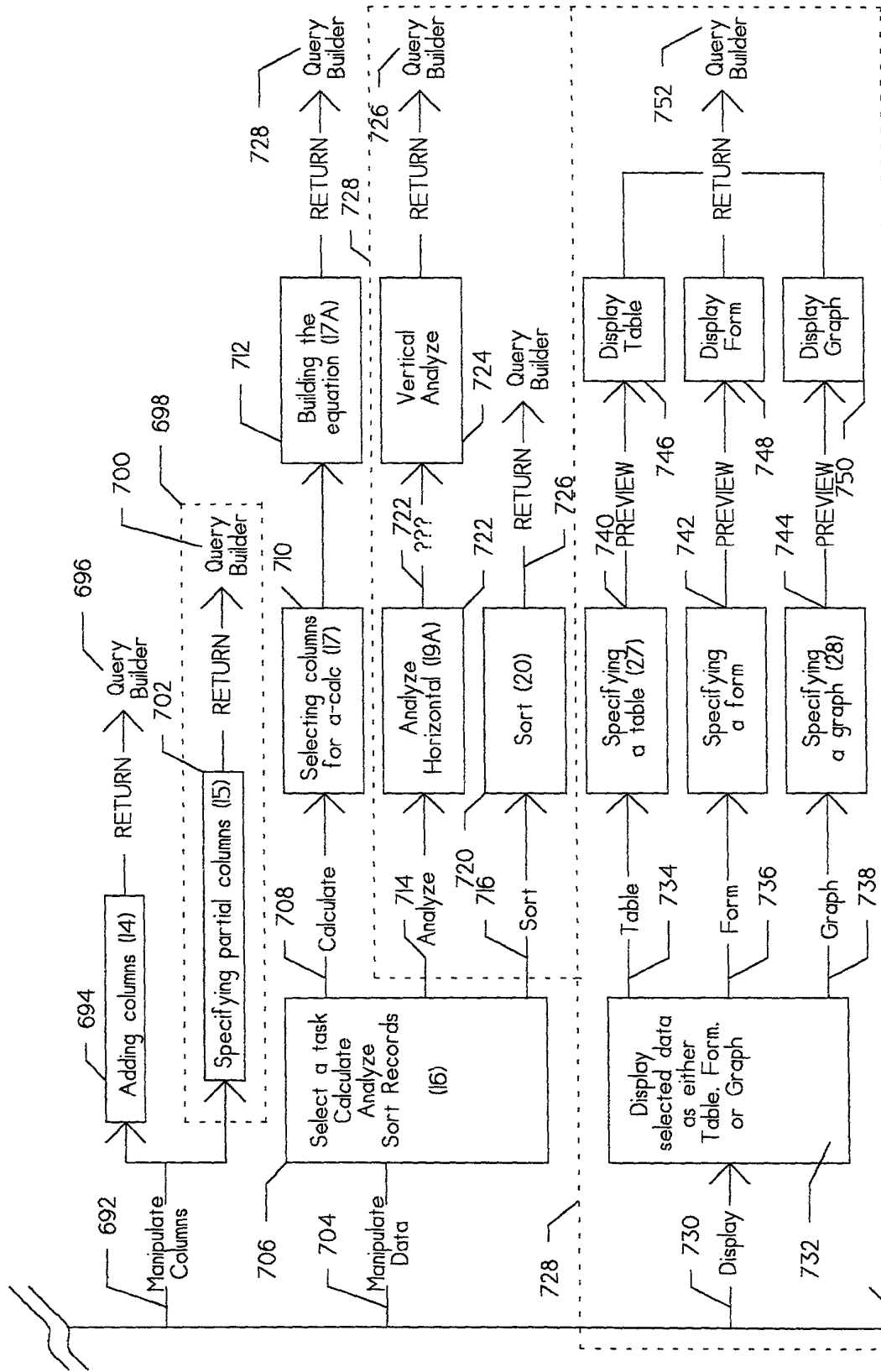
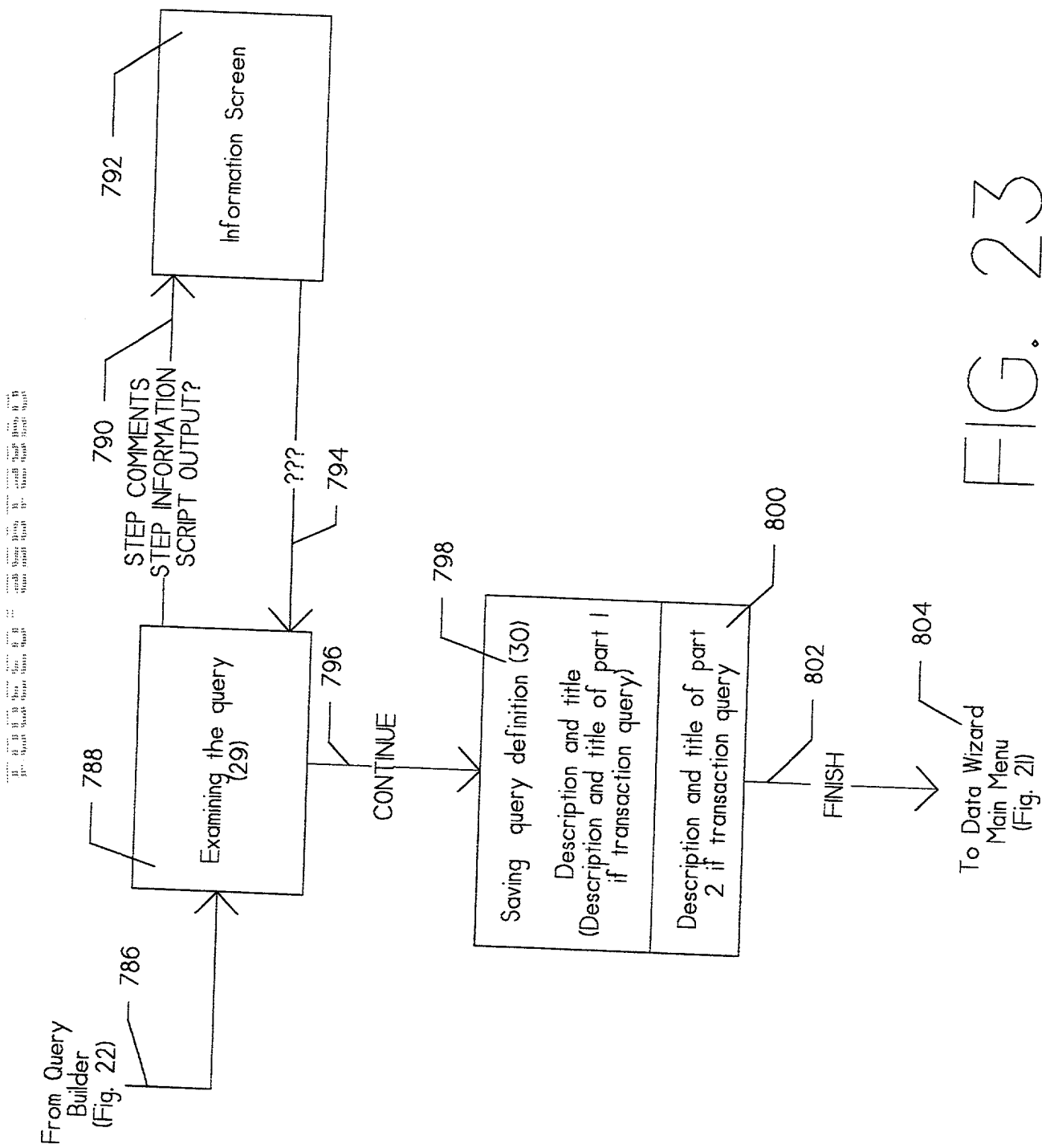


FIG. 22B



Data Wizard Home Screen

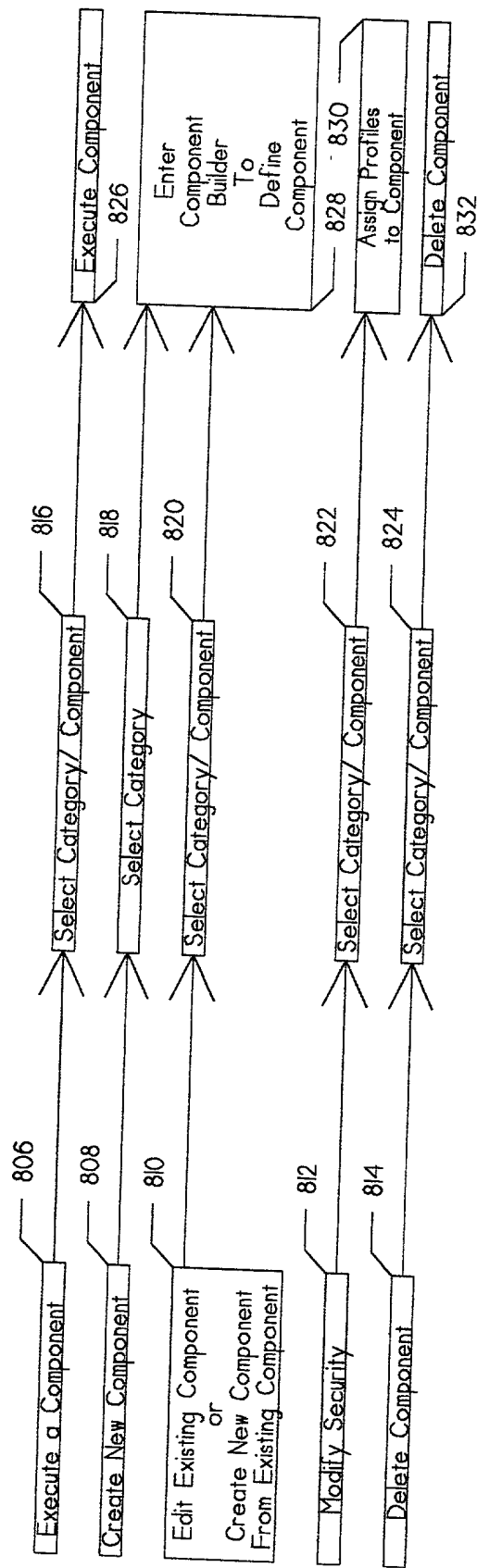


FIG. 24

10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

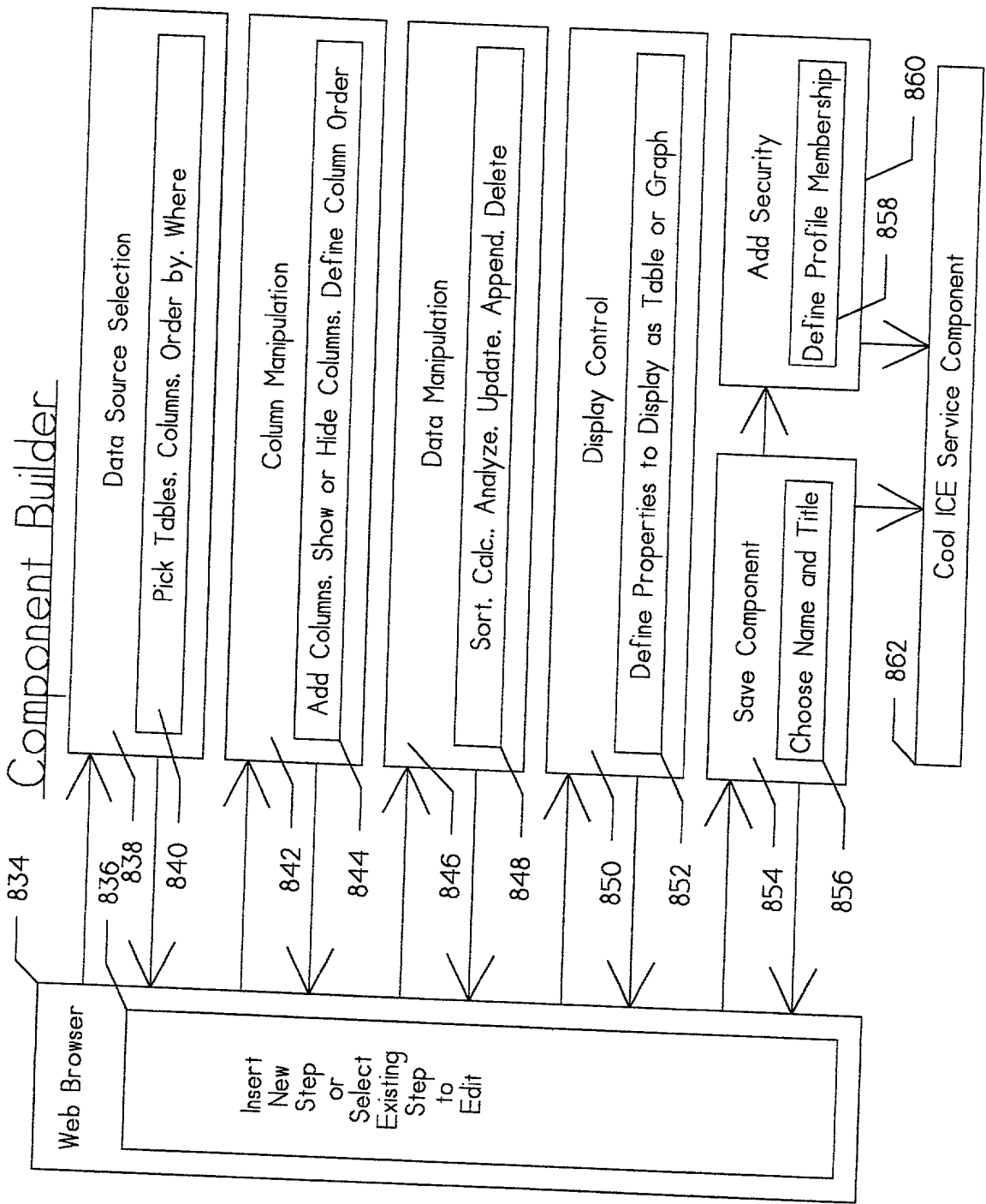


FIG. 25

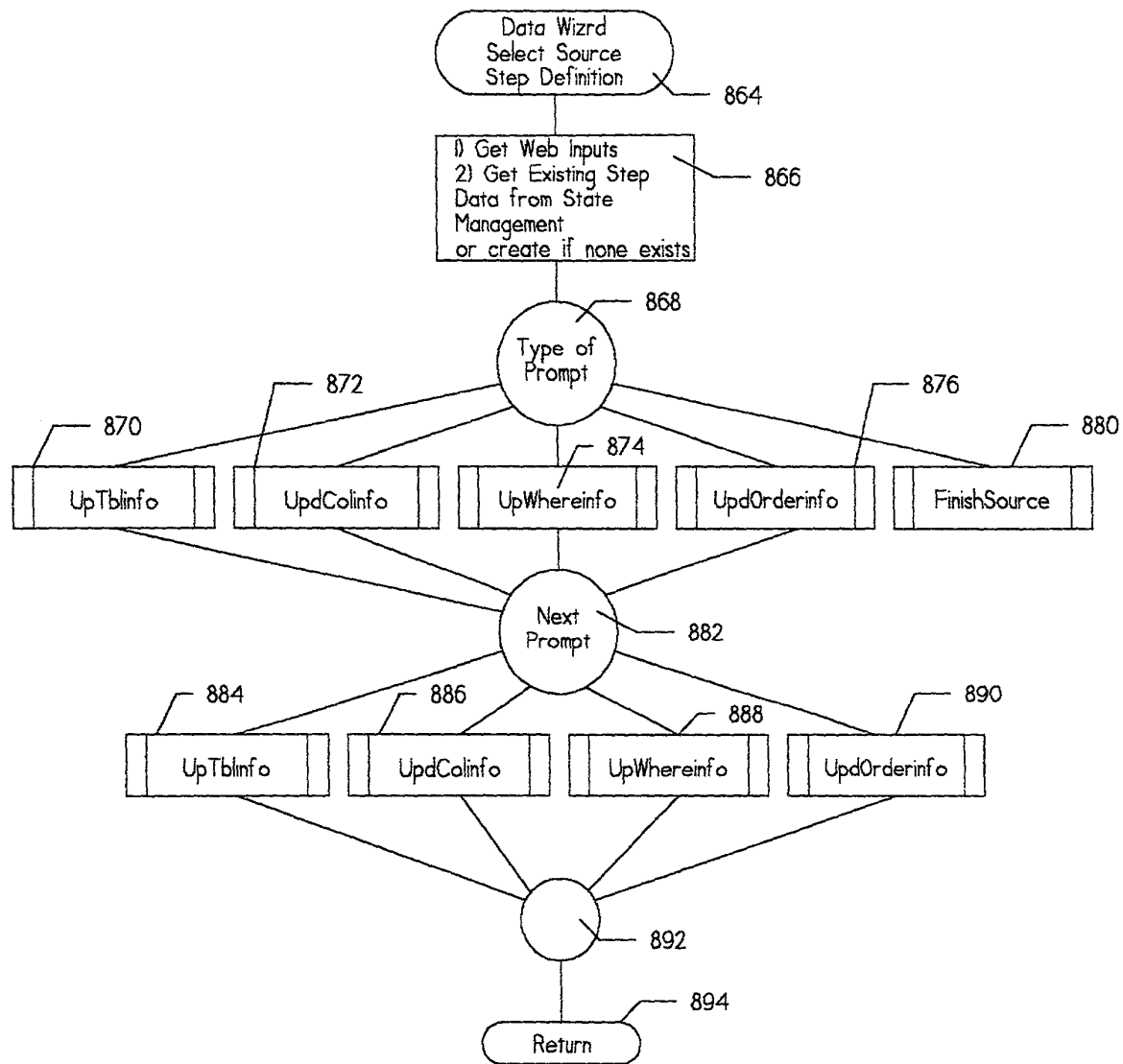


FIG. 26

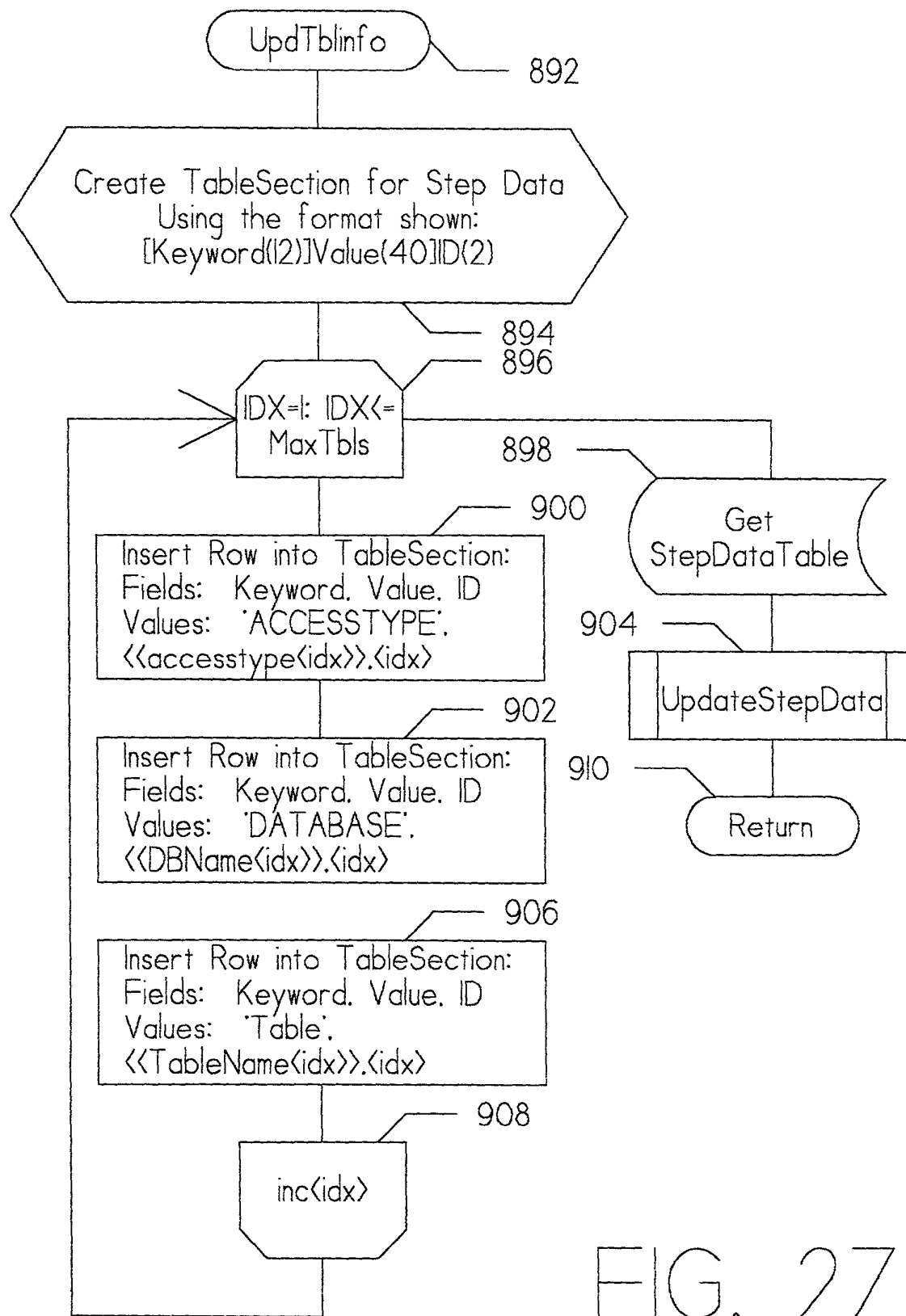


FIG. 27

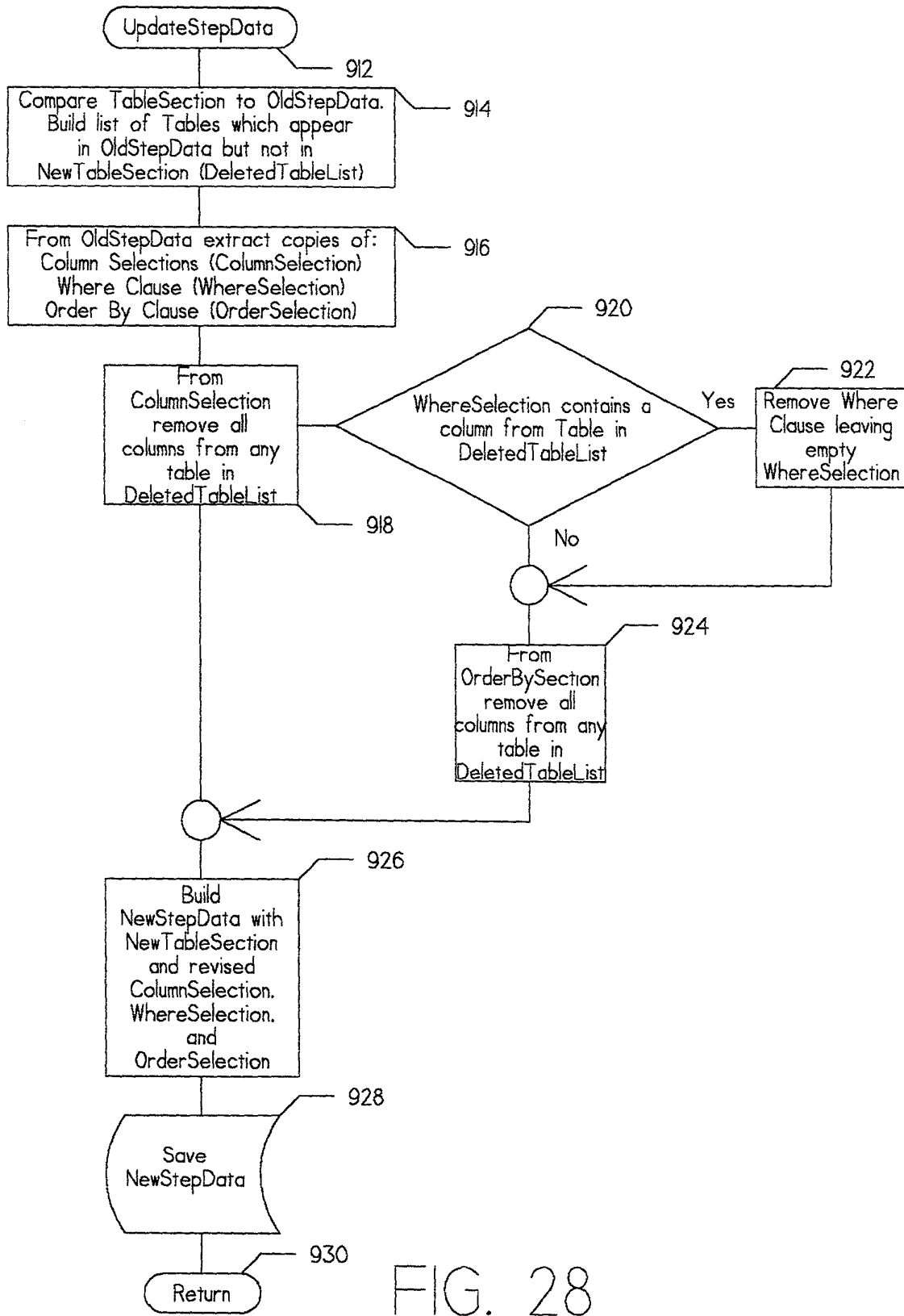
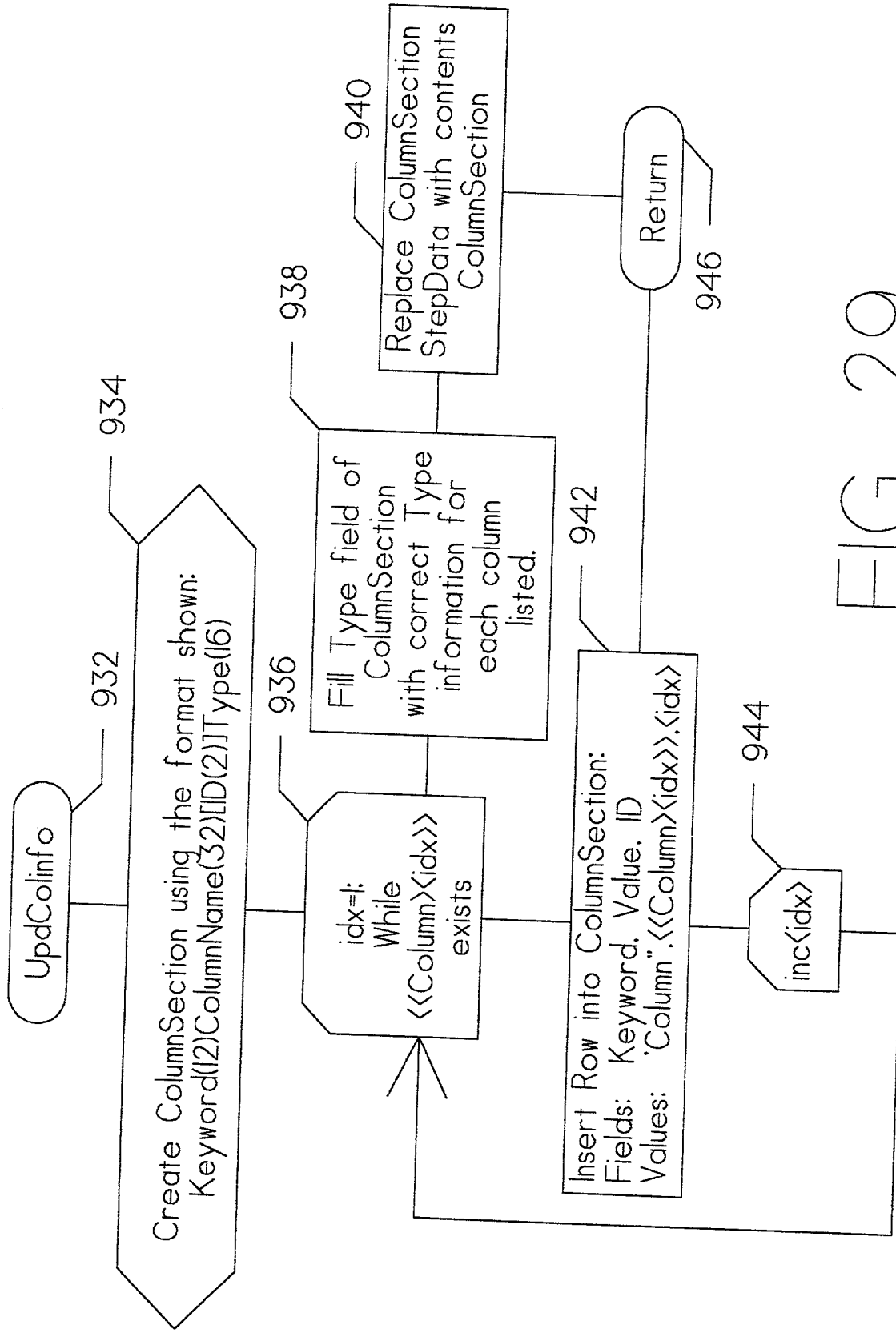


FIG. 28

29. G.
H.

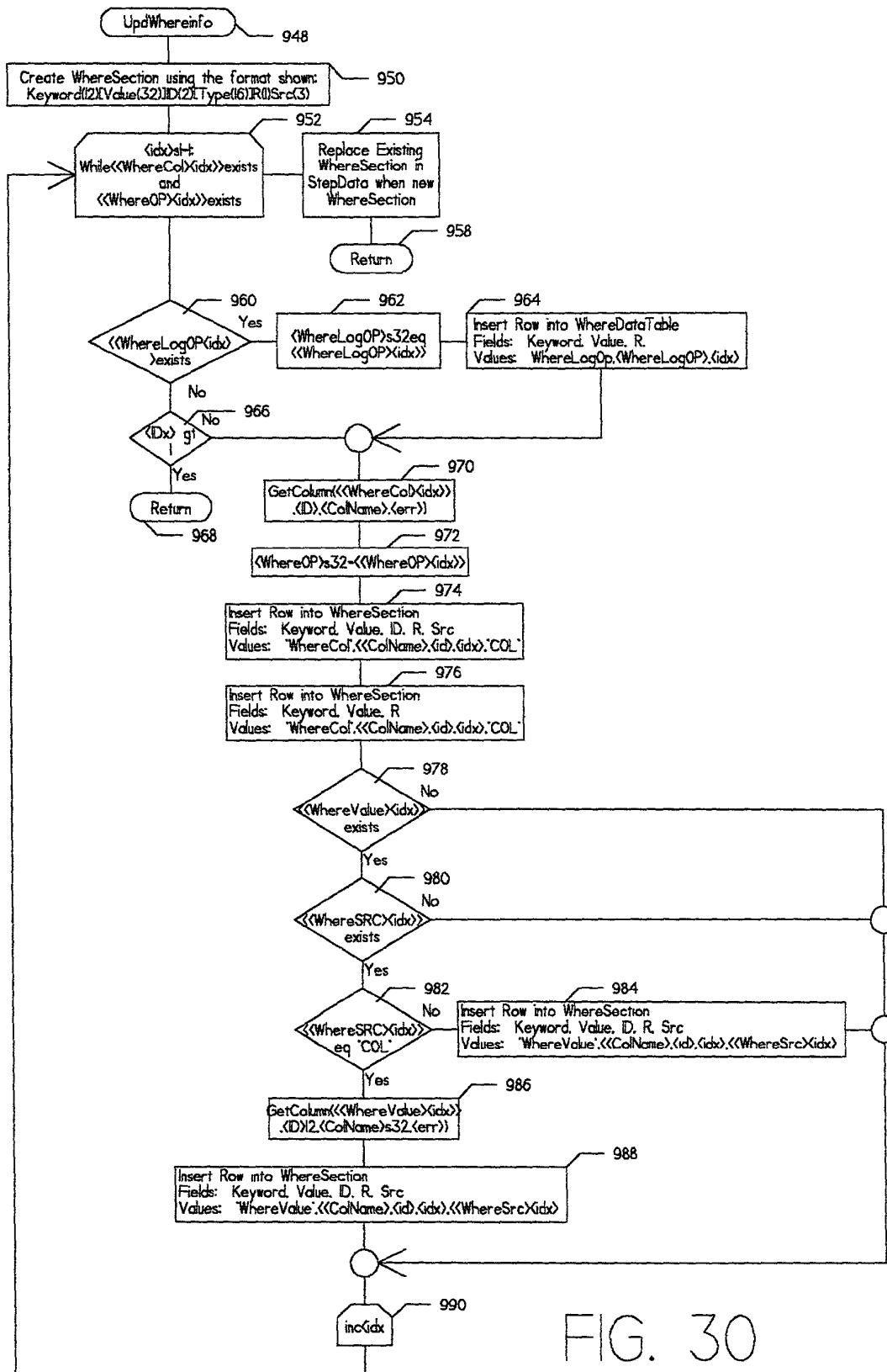


FIG. 30

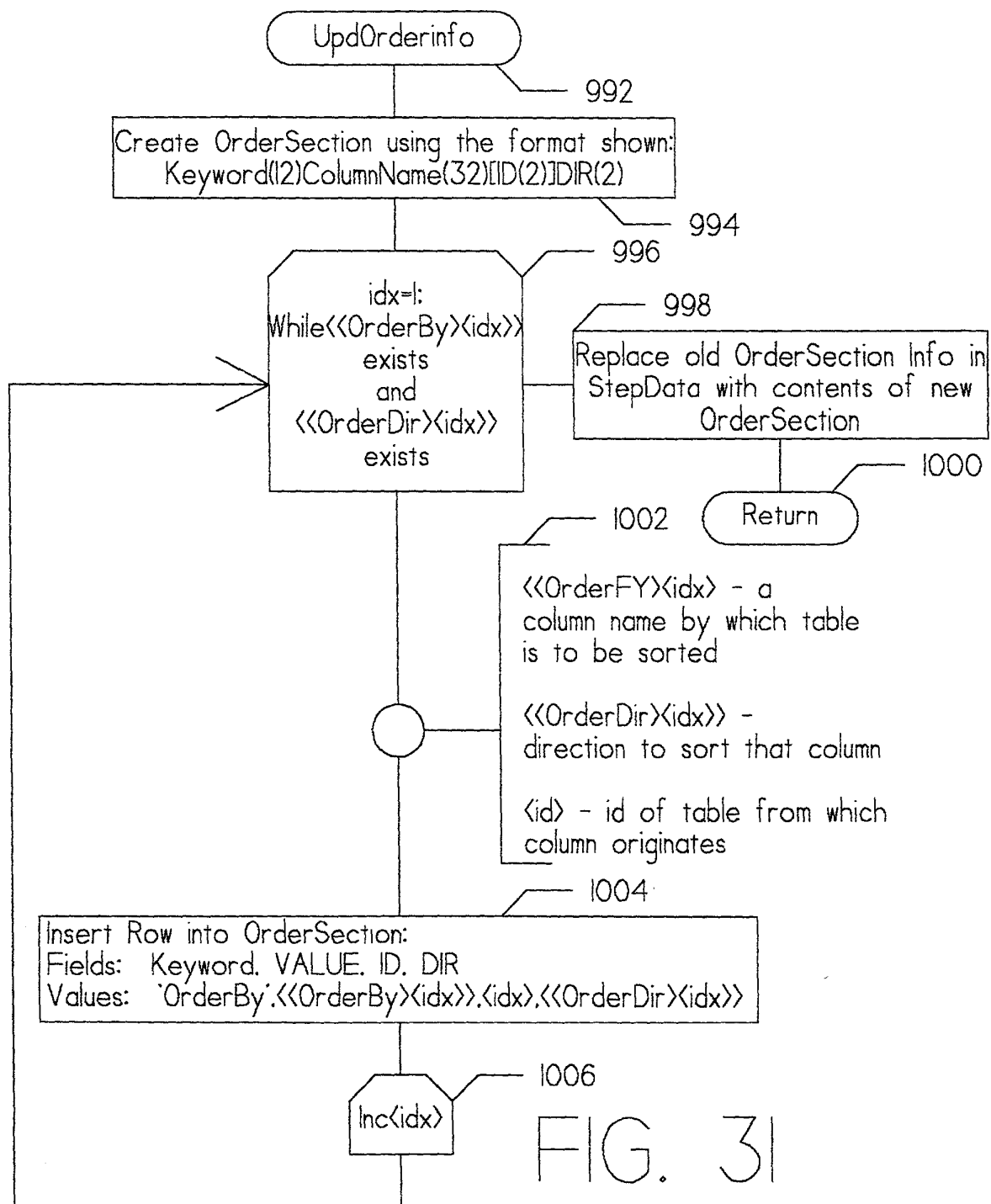


FIG. 31

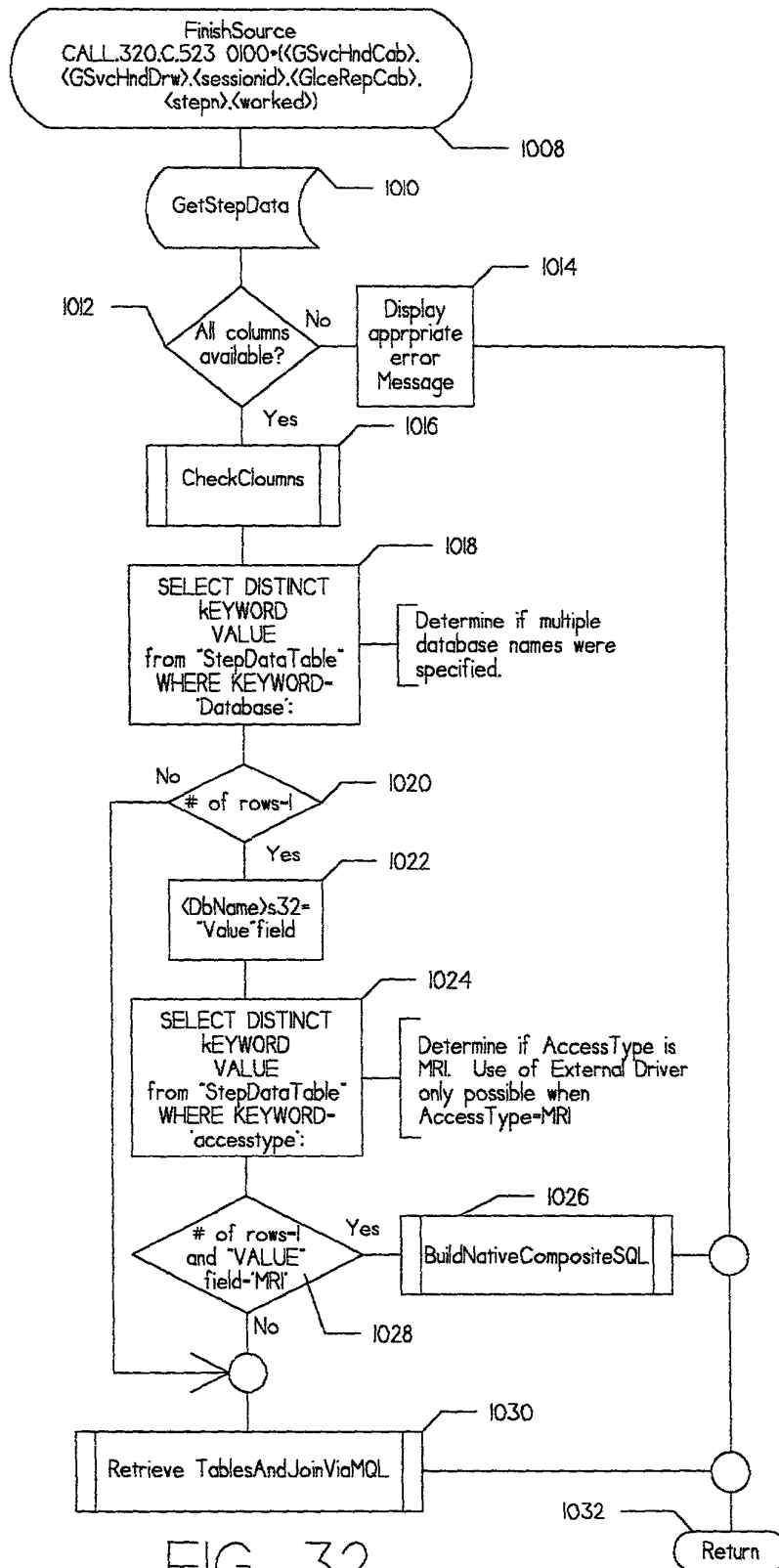


FIG. 32

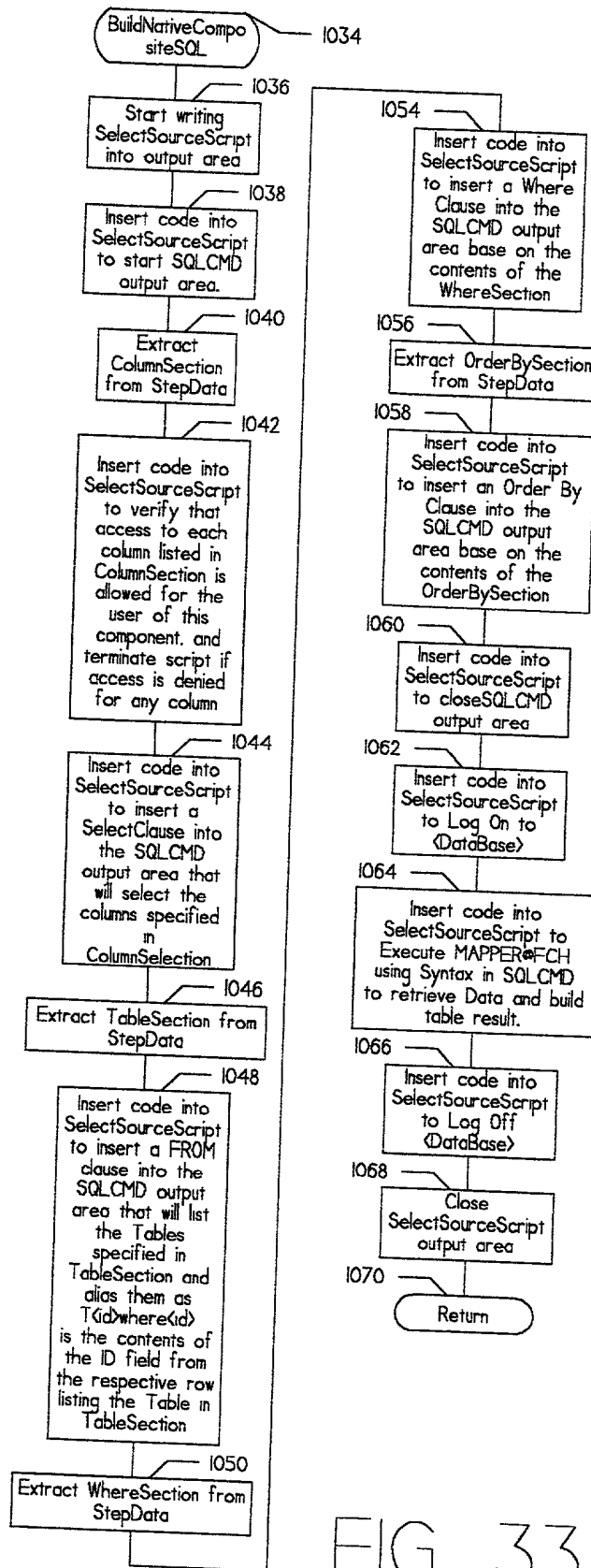


FIG. 33

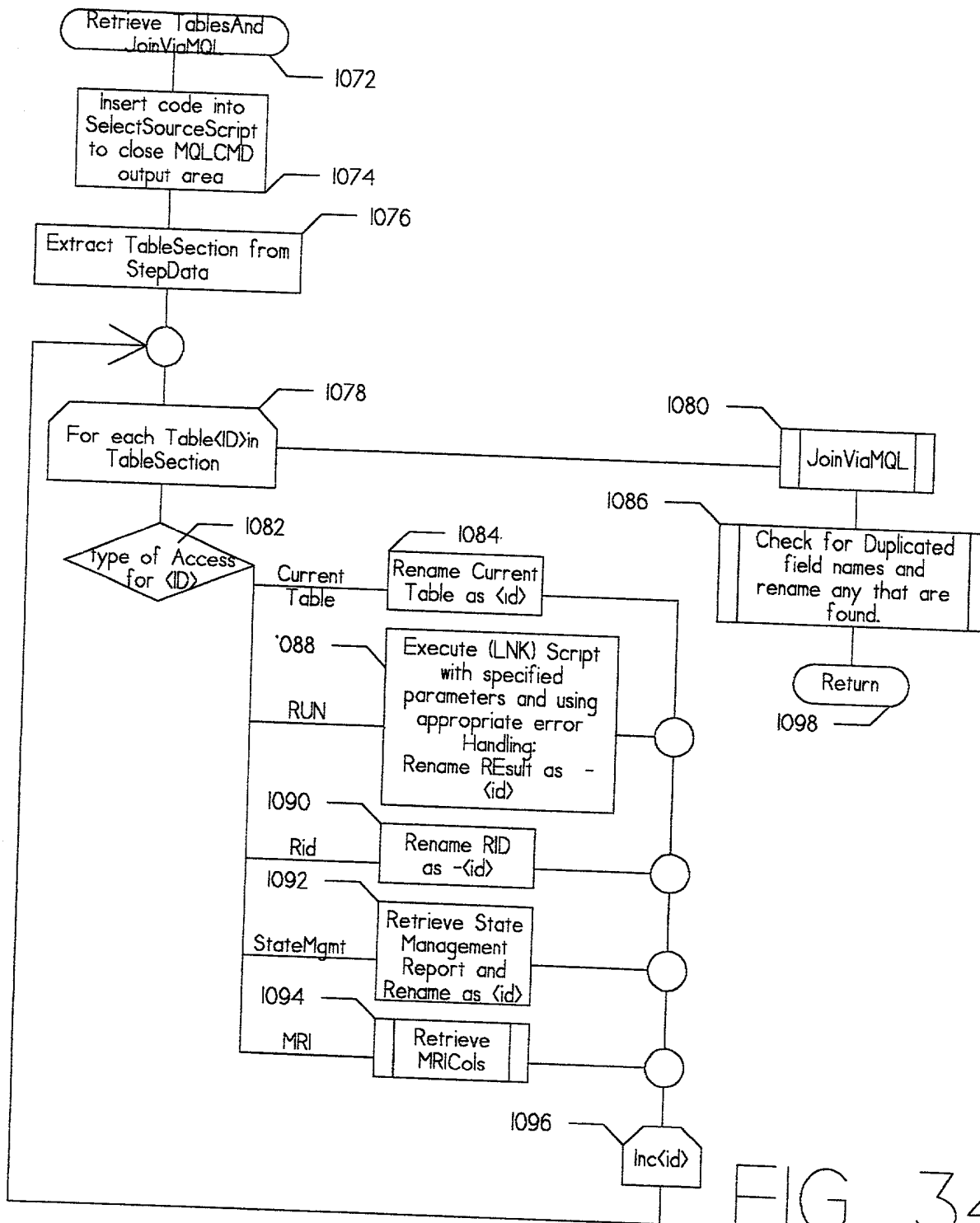
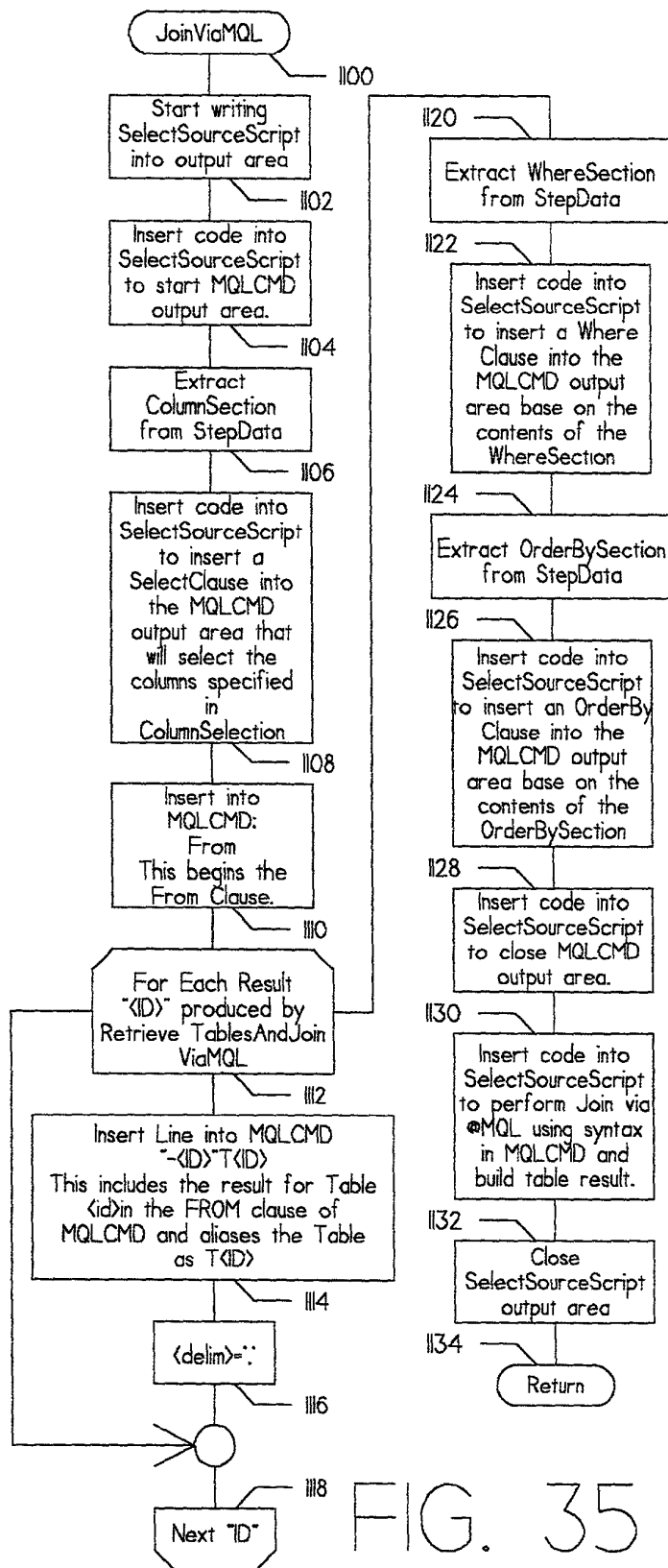


FIG. 34



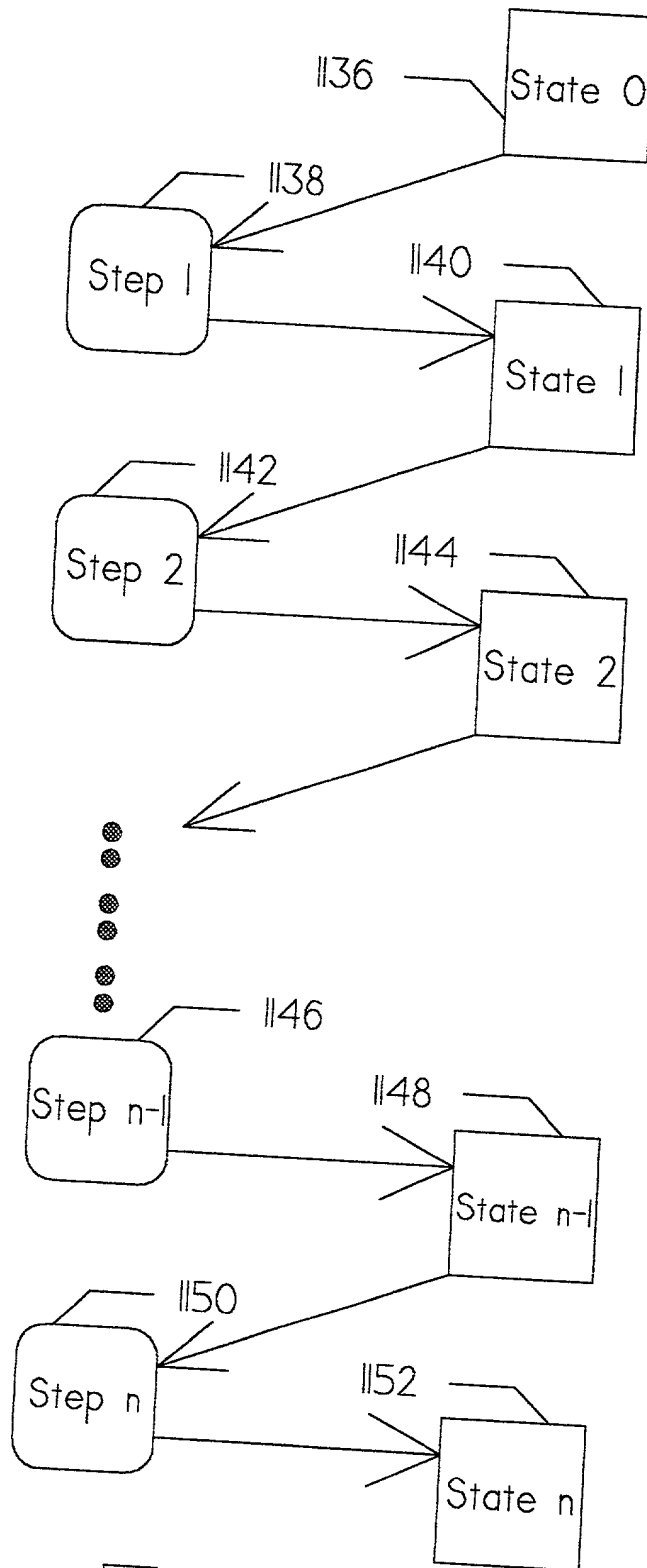


FIG. 36